ORDER NO. BSD04050100
D26

Service Manual

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DVCPRO HD EX

Digital Video Cassette Player/Recorder

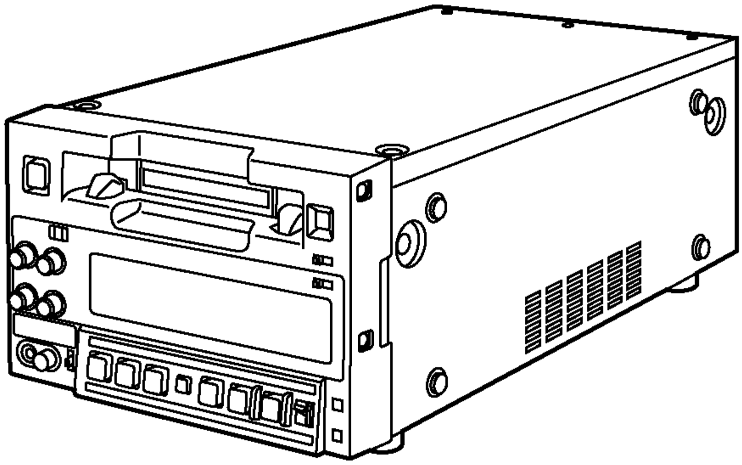
AJ-HD1200AP/E/MC

HD-SDI In/Out and SD-SDI Out Board

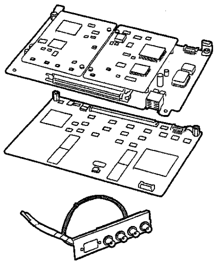
AJ-YA120AG

Digital Video In/Out Board

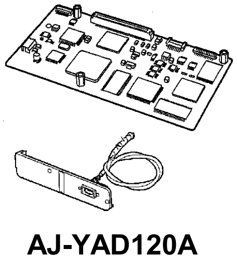
AJ-YAD120AG



AJ-HD1200A



AJ-YA120A



AJ-YAD120A

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

AJ-HD1200AP

Specifications

[GENERAL]

Power supply:
AC (100-240) V ±10%, 50/60 Hz
DC 12V, 6.6 A
Power consumption:
69 W (main unit only)
97 W (when AJ-YA120AG, AJ-YAD120AG are installed)

▭ indicates safety information.

Ambient operating temperature:
41°F to 104°F (5°C to 40°C)
Ambient operating humidity:
10% to 80% (no condensation)
Weight:
17.38 lb (7.9 kg)
Dimensions (W×H×D):
8 7/16×5 1/4×16 7/8 inches (214×132×428 mm)
Recording format*1, *2:
DVCPRO HD-LP
Recording video signals*1, *2:
1080i/59.94 Hz, 720p/59.94 Hz, 1080i/50 Hz switchable
Recording audio signals*1:
48 kHz, 16 bits, 8 channels
Recording tracks*1:

- Digital video/audio: Helical track
- Time code: Helical track (sub code area)
- Cue signal: 1 track
- Control (CTL) signal: 1 track

Playback formats:
DVCPRO HD-LP, DVCPRO HD, DVCPRO50, DVCPRO P, DVCPRO, DV-SP, DVCAM
Tape speed:
67.64 mm/sec. (in 59.94 Hz mode)
67.70 mm/sec. (in 60/50 Hz mode)
Recording time:
92 min. (when using AJ-HP92EL)
Tapes used:
Metal tapes
FF/REW time:
Approx. 2 min. (when using AJ-HP92ELG)

[VIDEO]

■ Digital video

Sampling frequency
Y: 74.25 MHz
PB/PR: 37.125 MHz
Quantizing:
8 bits
Video compression system:
DCT + variable length code
Video compression ratio:
1:6.7
Error correction:
Reed-Solomon product code
Video recording bit rate:
100 Mbps

■ Video input connectors*1

HD serial digital input:
BNC ×1
(compliant with SMPTE 292M/296M/299M standards)
Reference input:
Black burst/HD tri-level sync automatic switching
BNC ×2 (loop-through ×1)
75Ω termination ON/OFF switchable

■ Video output connectors

HD serial digital output*1:
BNC ×2
(compliant with SMPTE 292M/296M/299M standards)
(information superimposing ON/OFF)
SD serial digital output*1:
BNC ×1 (compliant with SMPTE 259M-C/272M-A, ITU-R BT.656-4 standards)
(information superimposing ON/OFF)
Analog composite output:
BNC ×2
VIDEO1*3, VIDEO2
(information superimposing ON/OFF)
HD analog component output:
BNC ×3*3 (Y/PB/PR, R/G/B switchable)
(information superimposing ON/OFF)

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*1: This functions only when the AJ-YA120AG (optional accessory) is installed.
*2: This functions only when the AJ-YAD120AG (optional accessory) is installed.
*3: The VIDEO1 and HD analog component Y outputs are switched.

■ Video output adjustment ranges

HD serial digital output system phase*1:

1080i: ±0.5H (in 13.5ns increments)

59/60 Hz: ±1100 samples
50 Hz: ±1320 samples
23/24 Hz: ±1375 samples

720p: ±0.5H (in 13.5ns increments)

59/60 Hz: ±825 samples

SD serial digital/composite video output system phase*1:

±0.5H (in 37ns increments)
59 Hz: ±858 samples
50 Hz: ±864 samples

Composite video output SC phase;

±180 deg. or more

[AUDIO]

■ Digital audio

Sampling frequency:
48 kHz (synchronized with video)

Quantizing:
16 bits

Frequency response:
20 Hz to 20 kHz ±1 dB (at reference level)

Dynamic range:
More than 85 dB (1 kHz, emphasis OFF)

Distortion:
Less than 0.1% (1 kHz, emphasis OFF, reference level)

Crosstalk:
Less than –80 dB (1 kHz, between 2 channels)

Wow & flutter:
Below measurable limits

Headroom:
20 dB

■ Audio input connectors*1

Analog input (CH1, CH2, CH3, CH4):
XLR ×4, 600 Ω/high impedance switchable (default: 600 Ω)
+4/0/–20 dBm/–60 dBu switchable
(The impedance is set to 3 kΩ when –60 dB is selected)

HD serial digital input:
BNC ×1, 75 Ω,
Compliant with SMPTE 292M/296M/299M standard

■ Audio output connectors

Analog output (CH1, CH2, CH3, CH4):
XLR ×4, low impedance
+4/0/–20 dBm (with 600 Ω load) switchable
Monitor output L or R switchable for CH3/CH4 output

HD serial digital output*1:
BNC ×2, 75 Ω
(compliant with SMPTE 292M/296M/299M standard)

SD serial digital output*1:
BNC ×1, 75 Ω
(compliant with SMPTE 259M-C/272M-A, ITU-R BT.656-4 standards)

Monitor output (L, R):
PHONO ×2, 600 Ω, –8 dBv

Headphone output:
Stereo (6 mm diameter), 8 Ω, level variable

[OTHER CONNECTORS]

Time code input*1:
BNC ×1, 0.5 to 8V [p-p], 10 kΩ

Time code output:
BNC ×1, low impedance, 2.0 ±0.5 V [p-p] (with 600 Ω load)

RS-422A input:
D-sub 9-pin, for AJ-A95
RS-422A interface

DC power output:
4 pins ×1, DC 12 V, 250 mA, for AJ-A95

DV input/output connector:

Connector:
6-pin type
Transmission rate:
400 Mbps, 200 Mbps, 100 Mbps;selectable
Transmission data:
Compliant with IEEE 1394-1995
Compliant with IEC 61883-Part1, Part2
Control command:
Compliant with AV/C command set (General Ver 3.0, VCR Subunit Ver 2.01)

[OPTIONS]

HD SDI input/output SD SDI output board:
AJ-YA120AG

Digital video input/output board:
AJ-YAD120AG

*1: This functions only when the AJ-YA120AG (optional accessory) is installed.

*2: This functions only when the AJ-YAD120AG (optional accessory) is installed.

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Specifications

[GENERAL]

Power supply:
AC (100-240) V ±10%, 50/60 Hz
DC 12V, 6.6 A
Power consumption:
69 W (main unit only)
97 W (when AJ-YA120AG, AJ-YAD120AG are installed)

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Ambient operating temperature:
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Ambient operating humidity:
10% to 80% (no condensation)
Weight:
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Metal tapes
FF/REW time:
Approx. 2 min. (when using AJ-HP92ELG)

[VIDEO]

■ Digital video

Sampling frequency
Y: 74.25 MHz
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Quantizing:
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Video compression system:
DCT + variable length code
Video compression ratio:
1:6.7
Error correction:
Reed-Solomon product code
Video recording bit rate:
100 Mbps

■ Video input connectors*1

HD serial digital input:
BNC ×1
(compliant with SMPTE 292M/296M/299M standards)
Reference input:
Black burst/HD tri-level sync automatic switching
BNC ×2 (loop-through ×1)
75Ω termination ON/OFF switchable

■ Video output connectors

HD serial digital output*1:
BNC ×2
(compliant with SMPTE 292M/296M/299M standards)
(information superimposing ON/OFF)
SD serial digital output*1:
BNC ×1 (compliant with SMPTE 259M-C/272M-A, ITU-R BT.656-4 standards)
(information superimposing ON/OFF)
Analog composite output:
BNC ×2
VIDEO1*3, VIDEO2
(information superimposing ON/OFF)
HD analog component output:
BNC ×3*3 (Y/PB/PR, R/G/B switchable)
(information superimposing ON/OFF)

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*1: This functions only when the AJ-YA120AG (optional accessory) is installed.
*2: This functions only when the AJ-YAD120AG (optional accessory) is installed.
*3: The VIDEO1 and HD analog component Y outputs are switched.

■ Video output adjustment ranges

HD serial digital output system phase*1:

1080i: ±0.5H (in 13.5ns increments)

59/60 Hz: ±1100 samples

50 Hz: ±1320 samples

23/24 Hz: ±1375 samples

720p: ±0.5H (in 13.5ns increments)

59/60 Hz: ±825 samples

SD serial digital/composite video output system phase*1:

±0.5H (in 37ns increments)

59 Hz: ±858 samples

50 Hz: ±864 samples

Composite video output SC phase;

±180 deg. or more

[AUDIO]

■ Digital audio

Sampling frequency:

48 kHz (synchronized with video)

Quantizing:

16 bits

Frequency response:

20 Hz to 20 kHz ±1 dB (at reference level)

Dynamic range:

More than 85 dB (1 kHz, emphasis OFF)

Distortion:

Less than 0.1% (1 kHz, emphasis OFF, reference level)

Crosstalk:

Less than –80 dB (1 kHz, between 2 channels)

Wow & flutter:

Below measurable limits

Headroom:

18 dB

■ Audio input connectors*1

Analog input (CH1, CH2, CH3, CH4):

XLR ×4, 600 Ω/high impedance switchable (default: 600 Ω)

+4/0/–20 dBm/–60 dBu switchable

(The impedance is set to 3 kΩ when –60 dB is selected)

HD serial digital input:

BNC ×1, 75 Ω,

Compliant with SMPTE 292M/296M/299M standard

■ Audio output connectors

Analog output (CH1, CH2, CH3, CH4):

XLR ×4, low impedance

+4/0/–20 dBm (with 600 Ω load) switchable

Monitor output L or R switchable for CH3/CH4 output

HD serial digital output*1:

BNC ×2, 75 Ω

(compliant with SMPTE 292M/296M/299M standard)

SD serial digital output*1:

BNC ×1, 75 Ω

(compliant with SMPTE 259M-C/272M-A, ITU-R BT.656-4 standards)

Monitor output (L, R):

PHONO ×2, 600 Ω, –8 dBv

Headphone output:

Stereo (6 mm diameter), 8 Ω, level variable

[OTHER CONNECTORS]

Time code input*1:

BNC ×1, 0.5 to 8V [p-p], 10 kΩ

Time code output:

BNC ×1, low impedance, 2.0 ±0.5 V [p-p] (with 600 Ω load)

RS-422A input:

D-sub 9-pin, for AJ-A95

RS-422A interface

DC power output:

4 pins ×1, DC 12 V, 250 mA, for AJ-A95

DV input/output connector:

Connector:

6-pin type

Transmission rate:

400 Mbps, 200 Mbps, 100 Mbps;selectable

Transmission data:

Compliant with IEEE 1394-1995

Compliant with IEC 61883-Part1, Part2

Control command:

Compliant with AV/C command set (General Ver 3.0, VCR Subunit Ver 2.01)

[OPTIONS]

HD SDI input/output SD SDI output board:

AJ-YA120AG

Digital video input/output board:

AJ-YAD120AG

*1: This functions only when the AJ-YA120AG (optional accessory) is installed.

*2: This functions only when the AJ-YAD120AG (optional accessory) is installed.

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

AJ-YA120AG

Specifications

[HD-SDI input/output/SD-SDI output board]

Dimensions (W×H×D), weight

- SDI connector panel:
  1 3/16×4 7/16×1 1/16 inches (30×112×26 mm), 0.176 lb (80 g)
- SDI board:
  6 1/2×4 1/2×7/8 inches (165×114×21 mm), 0.396 lb (180 g)
- UDC board:
  6 5/16×4×11/16 inches (160×101×17 mm), 0.22 lb (100 g)

[VIDEO]

Quantizing:
Input 10 bits (8 bits recorded)

HD video input:
BNC ×1, compliant with SMPTE292M/296M standards

HD video outputs:
BNC ×2, compliant with SMPTE292M/296M standards
(information superimposing ON/OFF)

SD video output:
BNC ×1, compliant with SMPTE259M-C/272M-A/ITU-R, BT.656-4 standards
(information superimposing ON/OFF)

Reference inputs:
BNC ×2 (loop-through ×1), 75 Ω termination, ON/OFF selectable
Black burst/HD tri-level sync automatic switching

Format conversion:
1080i/720p, 59.94 Hz ↔ 480i, 59.94 Hz
1080i, 50 Hz ↔ 576i, 50 Hz
1080i, 59.94 Hz/60 Hz ↔ 720p, 59.94 Hz/60 Hz
720p, 59.94 Hz/60 Hz → 1080i, 23.97 PsF/24 PsF
480p, 59.94 Hz → 1080i/720p, 59.94 Hz
480p, 59.94 Hz → 480i, 59.94 Hz
720p, 60 Hz → 1080i, 25 PsF **(AJ-HD1200A only)**
720p, 60 Hz → 576i, 50 Hz **(AJ-HD1200A only)**

[AUDIO]

HD audio input:
BNC ×1, compliant with SMPTE292M/296M/299M standard

HD audio outputs:
BNC ×2, compliant with SMPTE292M/296M/299M standard

SD audio output:
BNC ×1, compliant with SMPTE259M-C/272M-A/ITU-R, BT.656-4 standards

AJ-YAD120AG

Specifications

[Digital video interface board]

Dimensions (W×H×D), weight

- Option board:
  5 9/16×3×1/2 inches (140×75×12.6 mm), 0.1452 lb (66 g)
- Connector board:
  1 1/8×4 7/16×1 3/16 inches (28×112×30 mm), 0.099 lb (45 g)

[Input/Output]

Connector:
6-pin type

Transmission rate:
400 Mbps, 200 Mbps, 100 Mbps;selectable

Transmission data:
Compliant with IEEE 1394-1995
Compliant with IEC 61883-Part1, Part2

Control command:
Compliant with AV/C command set (General Ver 3.0、 VCR Subunit Ver 2.01)

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts, which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5MΩ.

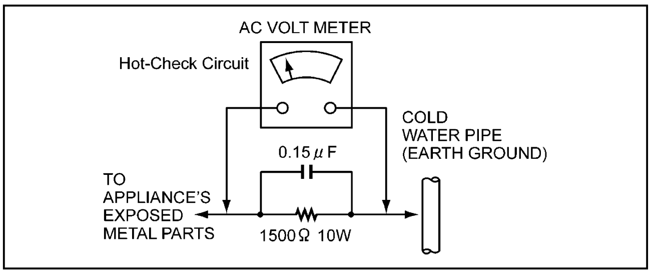

Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, in parallel with a 0.15μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of Pbf PCB:
PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.
Caution:

1. Pb free solder has a higher melting point than standard solder; Typically the melting point is 50–70˚F (30-40˚C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700±20˚F (370±10˚C).
2. Pb free solder will tend to splash when heated too high (about 1100˚F/600˚C).

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as “anti-static” can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
   (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

For your safety

IMPORTANT

"Unauthorized recording of copyrighted television programmes, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

■ **THIS APPARATUS MUST BE GROUNDED**

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power outlet which is effectively grounded through normal household wiring.
Extension cords used with the equipment must be three-core and be correctly wired to provide connection to the ground. Incorrectly wired extension cords can be extremely hazardous.
The fact that the equipment operates satisfactorily does not imply that it is grounded, and the installation is not necessarily safe. For your safety, if in any doubt about the effective grounding of the equipment or power outlet, please consult a qualified electrician.

■ **DO NOT REMOVE PANEL COVER BY UNSCREWING.**

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside.
Refer servicing to qualified service personnel.

CAUTION:
THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

WARNING:
- **TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.**
- **TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.**

CAUTION:
Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO QUALIFIED SERVICE PERSONNEL.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO QUALIFIED SERVICE PERSONNEL.

CAUTION:
Even when the Power Switch is in the OFF position, a small current flows the filter circuit.

▭ indicates safety information.

For your safety

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

Notice (U.S.A.only):

This product has a fluorescent lamp that contains a small amount of mercury.
It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations.
For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance:
<http://www.eiae.org.>

FCC Note:
This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning:
To assure continued FCC emission limit compliance, the user must use only shielded interface cables when connecting to external units. Also any unauthorized changes or modifications to this equipment could Void the userÅfs authority to operate it.

CAUTION:

This apparatus can be operated at a voltage in the range of 100 – 240 V AC.
Voltage other than 120 V is not intended for U.S.A. and Canada.

CAUTION:

Operation at a voltage other than 120 V AC may require the use of a different AC plug. Please contact either a local or foreign Panasonic authorized service center for assistance in selecting an alternate AC plug.

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■ **THIS APPARATUS MUST BE EARTHED**

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

■ **DO NOT REMOVE PANEL COVER BY UNSCREWING.**

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CAUTION:

THE AC OUTLET (MAINS SOCKET) SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

WARNING:

- **TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.**
- **TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.**

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO QUALIFIED SERVICE PERSONNEL.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO QUALIFIED SERVICE PERSONNEL.

CAUTION:

Even when the Power Switch is in the OFF position, a small current flows the filter circuit.

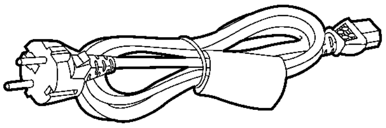
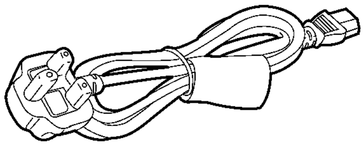
▭ indicates safety information.

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC.	**FOR U.K. ONLY**
Not to be used in the U.K. 	If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted. 

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 13 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

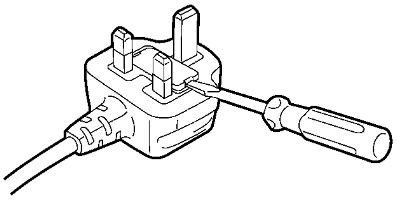
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

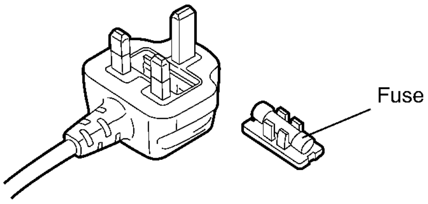
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



▭ indicates safety information.

AJ-YA120AG

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO AUTHORIZED SERVICE PERSONNEL.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

▭ indicates safety information.

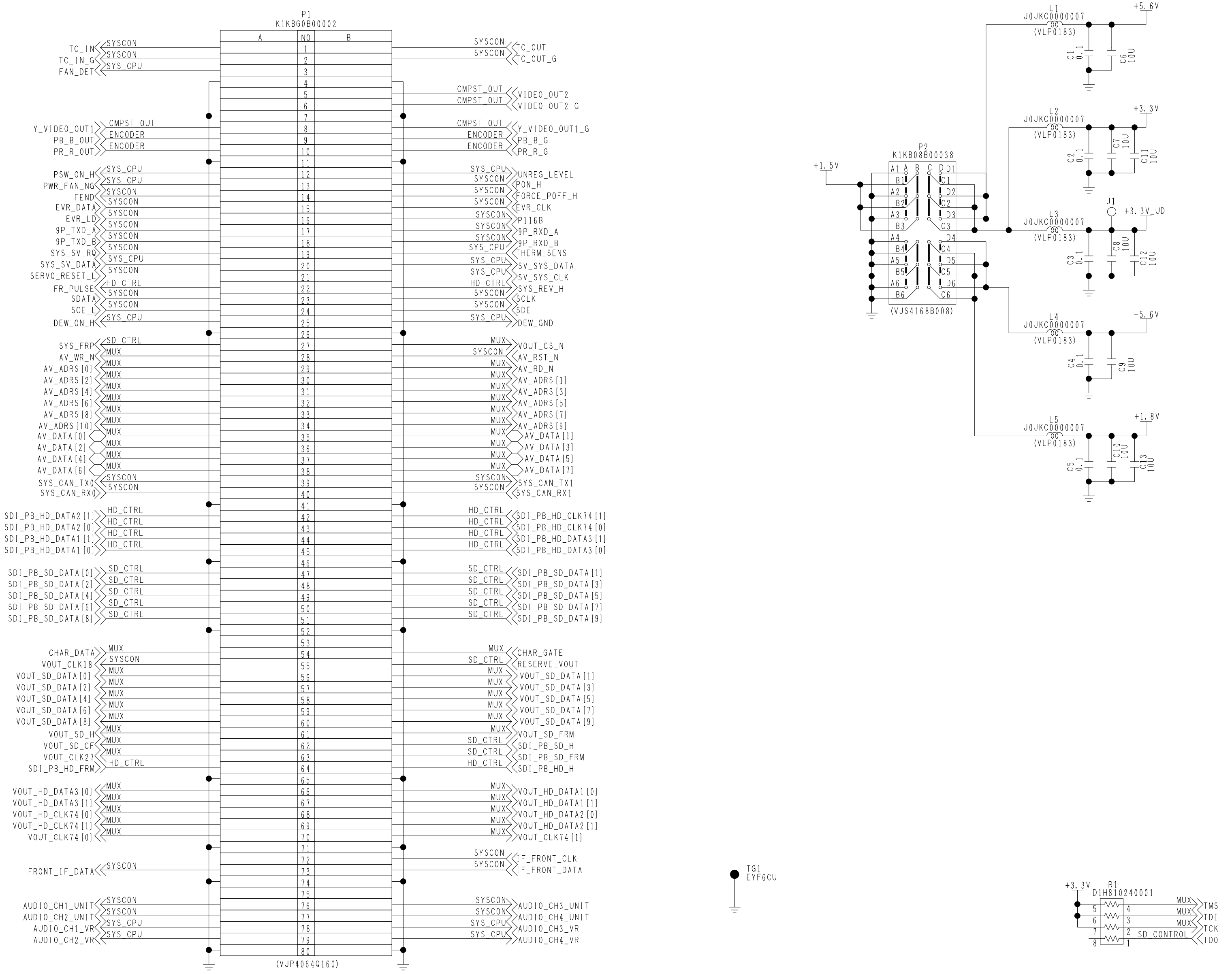
AJ-YAD120AG

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO AUTHORIZED SERVICE PERSONNEL.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

▭ indicates safety information.

Panasonic


P1
K1KBG0B00002
A
NO
B
TC_IN SYSCON
TC_IN_G SYSCON
FAN_DET SYS_CPU
SYSCON TC_OUT
SYSCON TC_OUT_G
CMPST_OUT VIDEO_OUT2
CMPST_OUT VIDEO_OUT2_G
Y_VIDEO_OUT1 CMPST_OUT
PB_B_OUT ENCODER
PR_R_OUT ENCODER
CMPST_OUT Y_VIDEO_OUT1_G
ENCODER PB_B_G
ENCODER PR_R_G
PSW_ON_H SYS_CPU
PWR_FAN_NG SYS_CPU
FEND SYSCON
EVR_DATA SYSCON
EVR_LD SYSCON
9P_TXD_A SYSCON
9P_TXD_B SYSCON
SYS_SV_RQ SYSCON
SYS_SV_DATA SYS_CPU
SERVO_RESET_L SYSCON
FR_PULSE HD_CTRL
SDATA SYSCON
SCE_L SYSCON
DEW_ON_H SYS_CPU
SYS_CPU UNREG_LEVEL
SYSCON PON_H
SYSCON FORCE_POFF_H
SYSCON EVR_CLK
SYSCON P116B
SYSCON 9P_RXD_A
SYSCON 9P_RXD_B
SYS_CPU THERM_SENS
SYS_CPU SV_SYS_DATA
SYS_CPU SV_SYS_CLK
HD_CTRL SYS_REV_H
SYSCON SCLK
SYSCON SDE
SYS_CPU DEW_GND
SYS_FRP SD_CTRL
AV_WR_N MUX
AV_ADRS[0] MUX
AV_ADRS[2] MUX
AV_ADRS[4] MUX
AV_ADRS[6] MUX
AV_ADRS[8] MUX
AV_ADRS[10] MUX
AV_DATA[0] MUX
AV_DATA[2] MUX
AV_DATA[4] MUX
AV_DATA[6] MUX
SYS_CAN_TX0 SYSCON
SYS_CAN_RX0 SYSCON
MUX VOUT_CS_N
SYSCON AV_RST_N
MUX AV_RD_N
MUX AV_ADRS[1]
MUX AV_ADRS[3]
MUX AV_ADRS[5]
MUX AV_ADRS[7]
MUX AV_ADRS[9]
MUX AV_DATA[1]
MUX AV_DATA[3]
MUX AV_DATA[5]
MUX AV_DATA[7]
SYSCON SYS_CAN_TX1
SYSCON SYS_CAN_RX1
SDI_PB_HD_DATA2[1] HD_CTRL
SDI_PB_HD_DATA2[0] HD_CTRL
SDI_PB_HD_DATA1[1] HD_CTRL
SDI_PB_HD_DATA1[0] HD_CTRL
HD_CTRL SDI_PB_HD_CLK74[1]
HD_CTRL SDI_PB_HD_CLK74[0]
HD_CTRL SDI_PB_HD_DATA3[1]
HD_CTRL SDI_PB_HD_DATA3[0]
SDI_PB_SD_DATA[0] SD_CTRL
SDI_PB_SD_DATA[2] SD_CTRL
SDI_PB_SD_DATA[4] SD_CTRL
SDI_PB_SD_DATA[6] SD_CTRL
SDI_PB_SD_DATA[8] SD_CTRL
SD_CTRL SDI_PB_SD_DATA[1]
SD_CTRL SDI_PB_SD_DATA[3]
SD_CTRL SDI_PB_SD_DATA[5]
SD_CTRL SDI_PB_SD_DATA[7]
SD_CTRL SDI_PB_SD_DATA[9]
CHAR_DATA MUX
VOUT_CLK18 SYSCON
VOUT_SD_DATA[0] MUX
VOUT_SD_DATA[2] MUX
VOUT_SD_DATA[4] MUX
VOUT_SD_DATA[6] MUX
VOUT_SD_DATA[8] MUX
VOUT_SD_H MUX
VOUT_SD_CF MUX
VOUT_CLK27 MUX
SDI_PB_HD_FRM HD_CTRL
MUX CHAR_GATE
SD_CTRL RESERVE_VOUT
MUX VOUT_SD_DATA[1]
MUX VOUT_SD_DATA[3]
MUX VOUT_SD_DATA[5]
MUX VOUT_SD_DATA[7]
MUX VOUT_SD_DATA[9]
MUX VOUT_SD_FRM
SD_CTRL SDI_PB_SD_H
SD_CTRL SDI_PB_SD_FRM
HD_CTRL SDI_PB_HD_H
VOUT_HD_DATA3[0] MUX
VOUT_HD_DATA3[1] MUX
VOUT_HD_CLK74[0] MUX
VOUT_HD_CLK74[1] MUX
VOUT_CLK74[0] MUX
MUX VOUT_HD_DATA1[0]
MUX VOUT_HD_DATA1[1]
MUX VOUT_HD_DATA2[0]
MUX VOUT_HD_DATA2[1]
MUX VOUT_CLK74[1]
FRONT_IF_DATA SYSCON
SYSCON IF_FRONT_CLK
SYSCON IF_FRONT_DATA
AUDIO_CH1_UNIT SYSCON
AUDIO_CH2_UNIT SYSCON
AUDIO_CH1_VR SYS_CPU
AUDIO_CH2_VR SYS_CPU
SYSCON AUDIO_CH3_UNIT
SYSCON AUDIO_CH4_UNIT
SYS_CPU AUDIO_CH3_VR
SYS_CPU AUDIO_CH4_VR
(VJP4064Q160)
TG1
EYF6CU
P2
K1KB08B00038
+1.5V
A1 A B C D D1
B1 C1
A2 D2
B2 C2
A3 D3
B3 C3
A4 D4
B4 C4
A5 D5
B5 C5
A6 D6
B6 C6
(VJS4168B008)
L1
J0JKC0000007
(VLP0183)
+5.6V
C1 0.1
C6 10U
L2
J0JKC0000007
(VLP0183)
+3.3V
C2 0.1
C7 10U
C11 10U
J1
L3
J0JKC0000007
(VLP0183)
+3.3V_UD
C3 0.1
C8 10U
C12 10U
L4
J0JKC0000007
(VLP0183)
-5.6V
C4 0.1
C9 10U
L5
J0JKC0000007
(VLP0183)
+1.8V
C5 0.1
C10 10U
C13 10U
+3.3V
R1
D1H810240001
MUX TMS
MUX TDI
MUX TCK
SD_CONTROL TDO
A
B
C
D
E
F
G
H
I
J
1
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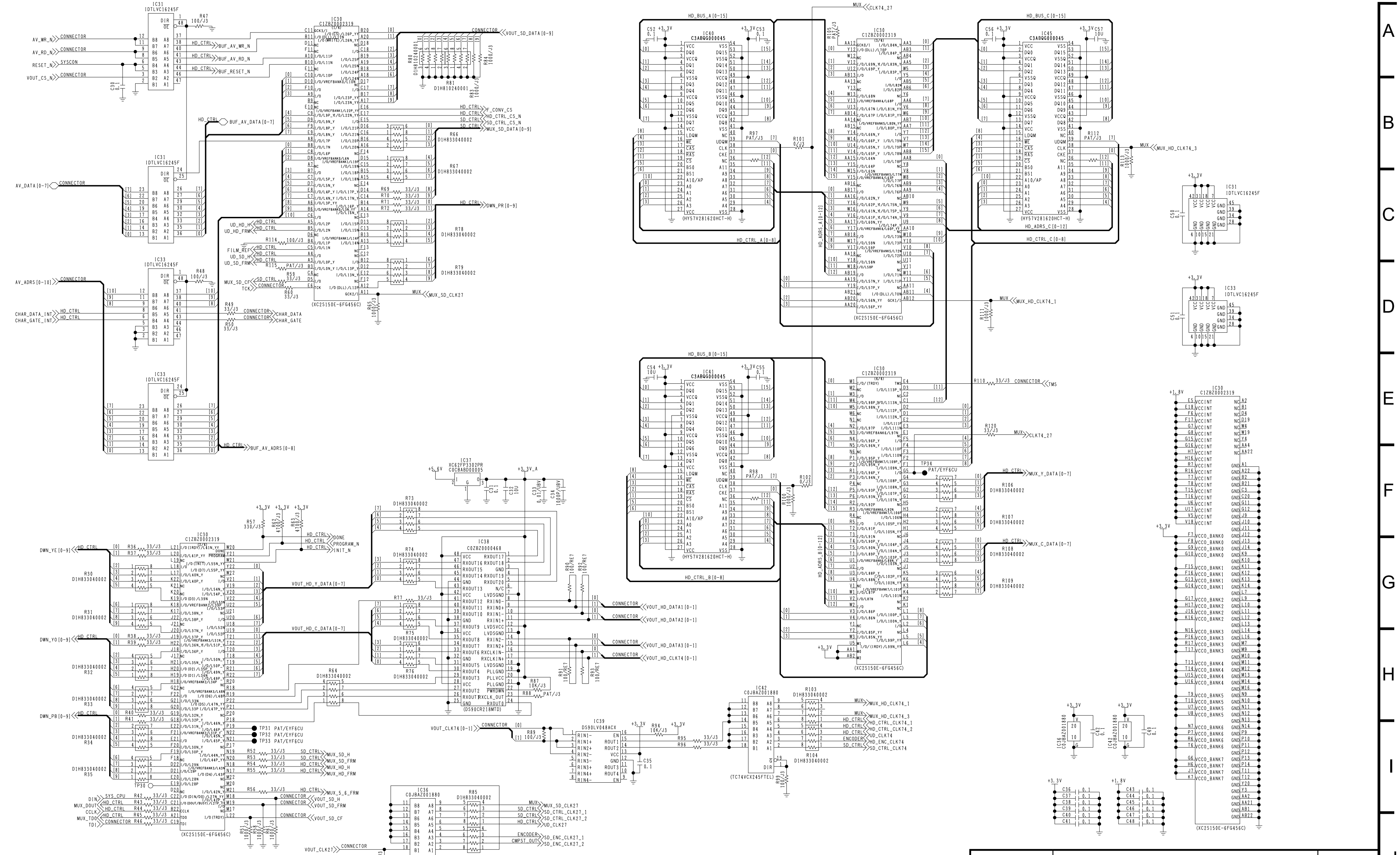
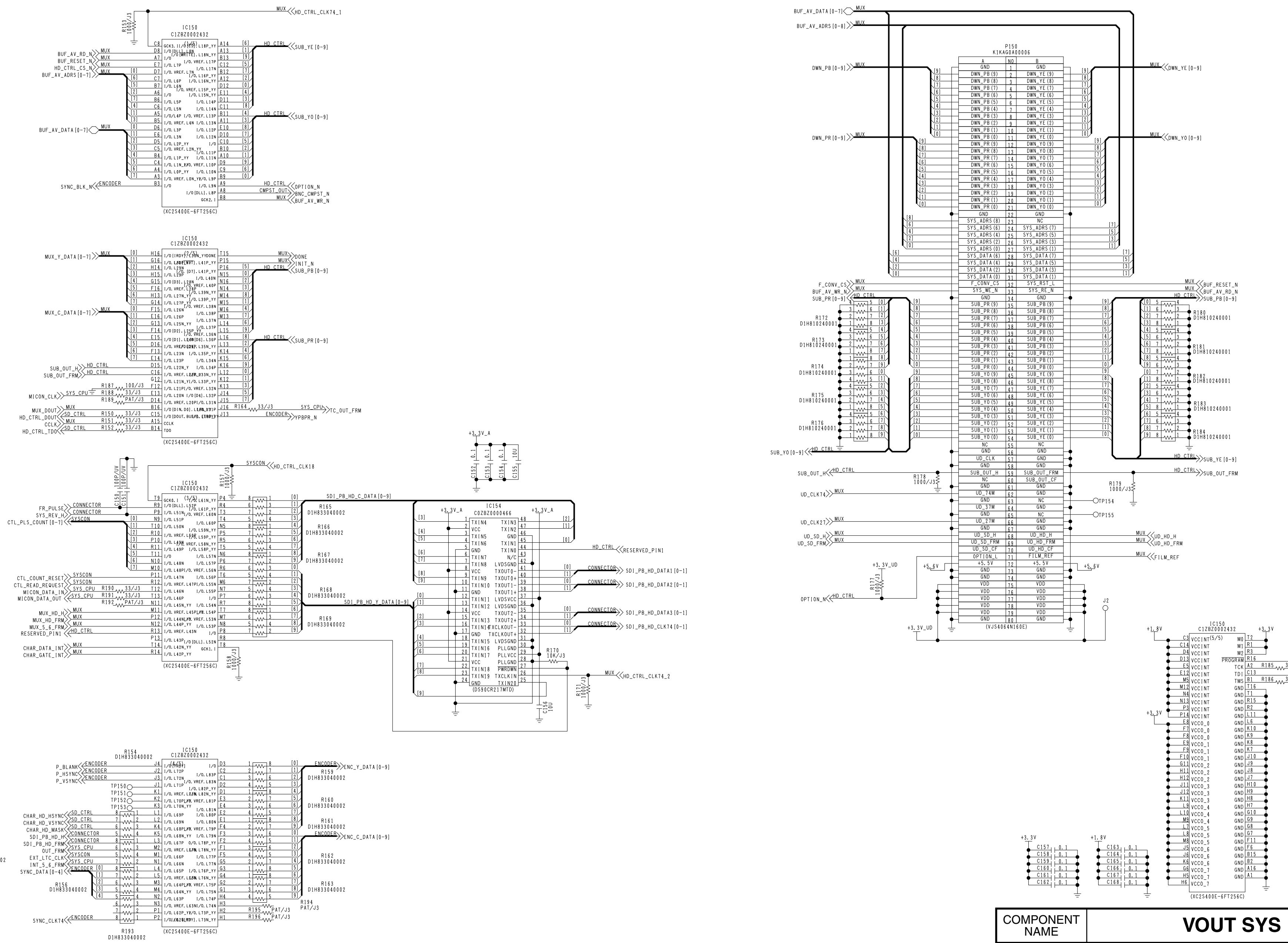
COMPONENT NAME	VOUT SYS		01/8
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83625B		KR 3A0187(1/8)	
		SCM039	

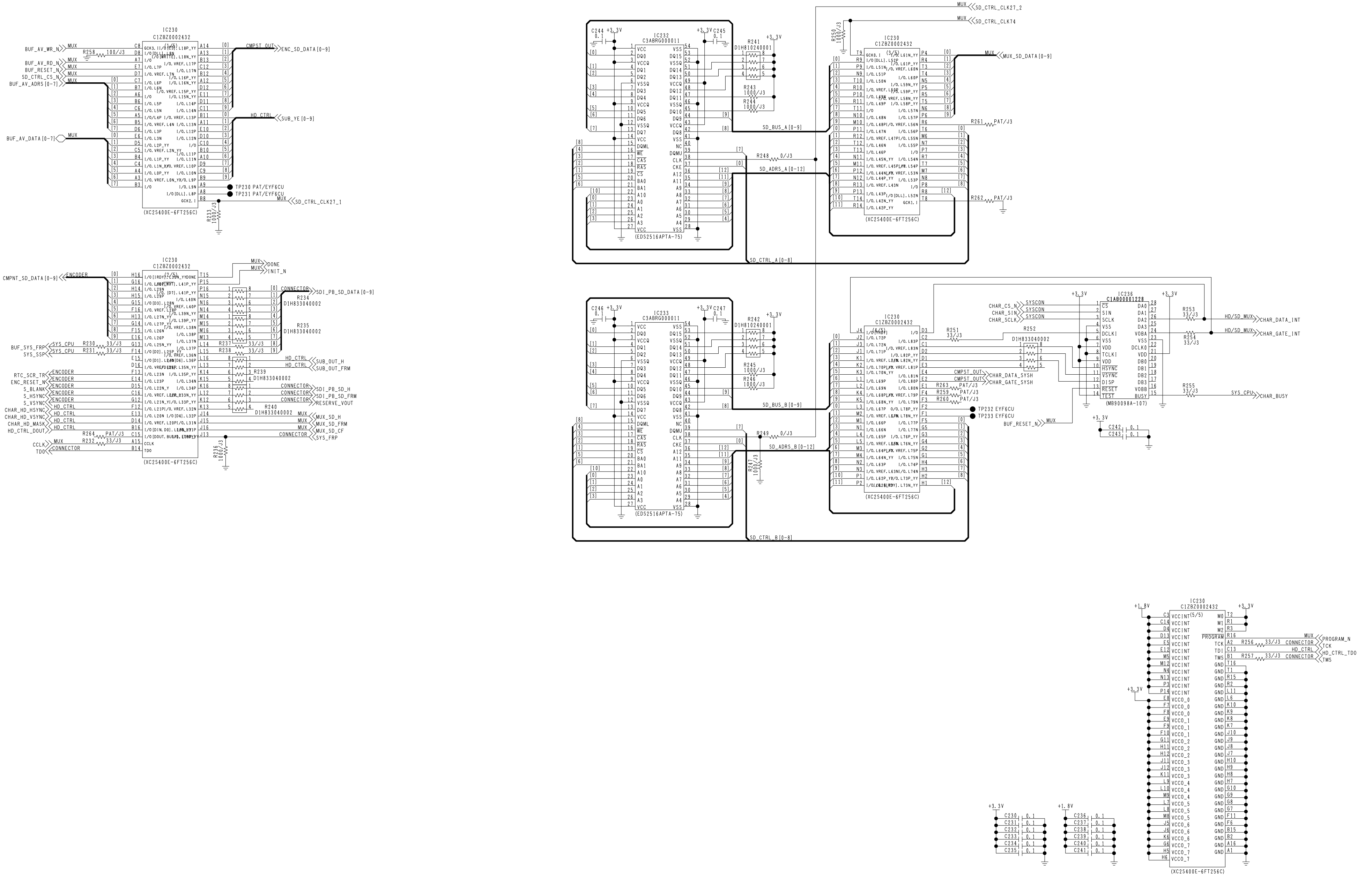


IC31 IDTLVC16245F
IC33 IDTLVC16245F
IC30 C1ZBZ0002319 (XC2S150E-6FG456C)
IC40 C3ABQG000045 (HY57V281620HCT-H)
IC41 C3ABQG000045 (HY57V281620HCT-H)
IC45 C3ABQG000045 (HY57V281620HCT-H)
IC38 C0ZBZ0000468 (DS90CR218MTD)
IC37 XC62FP3302PR C0CBABD00005
IC39 DS90LV048ACX
IC36 C0JBAZ001880 (TC74VCX245FTEL)
IC42 C0JBAZ001880 (TC74VCX245FTEL)
AV_WR_N
AV_RD_N
RESET_N
VOUT_CS_N
AV_DATA[0-7]
AV_ADRS[0-10]
CHAR_DATA_INT
CHAR_GATE_INT
BUF_AV_DATA[0-7]
BUF_AV_ADRS[0-8]
VOUT_SD_DATA[0-9]
MUX_SD_DATA[0-9]
DWN_PR[0-9]
MUX_SD_CLK27
HD_BUS_A[0-15]
HD_BUS_B[0-15]
HD_BUS_C[0-15]
HD_CTRL_A[0-8]
HD_CTRL_B[0-8]
HD_CTRL_C[0-8]
MUX_HD_CLK74_1
MUX_HD_CLK74_3
CLK74_27
MUX_Y_DATA[0-7]
MUX_C_DATA[0-7]
DWN_YE[0-9]
DWN_YO[0-9]
DWN_PB[0-9]
VOUT_HD_Y_DATA[0-7]
VOUT_HD_C_DATA[0-7]
VOUT_HD_DATA1[0-1]
VOUT_HD_DATA2[0-1]
VOUT_HD_DATA3[0-1]
VOUT_HD_CLK74[0-1]
VOUT_CLK74[0-1]
VOUT_CLK27
MUX_SD_H
MUX_SD_FRM
MUX_HD_H
MUX_HD_FRM
MUX_5_6_FRM
VOUT_SD_H
VOUT_SD_FRM
VOUT_SD_CF
SD_CTRL_CLK27_1
SD_CTRL_CLK27_2
UD_CLK27
SD_ENC_CLK27_1
SD_ENC_CLK27_2
HD_CTRL_CLK74_1
HD_CTRL_CLK74_2
UD_CLK74
HD_ENC_CLK74
SD_CTRL_CLK74
DONE
PROGRAM_N
INIT_N
TMS
+3.3V
+1.8V
+5.6V
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J

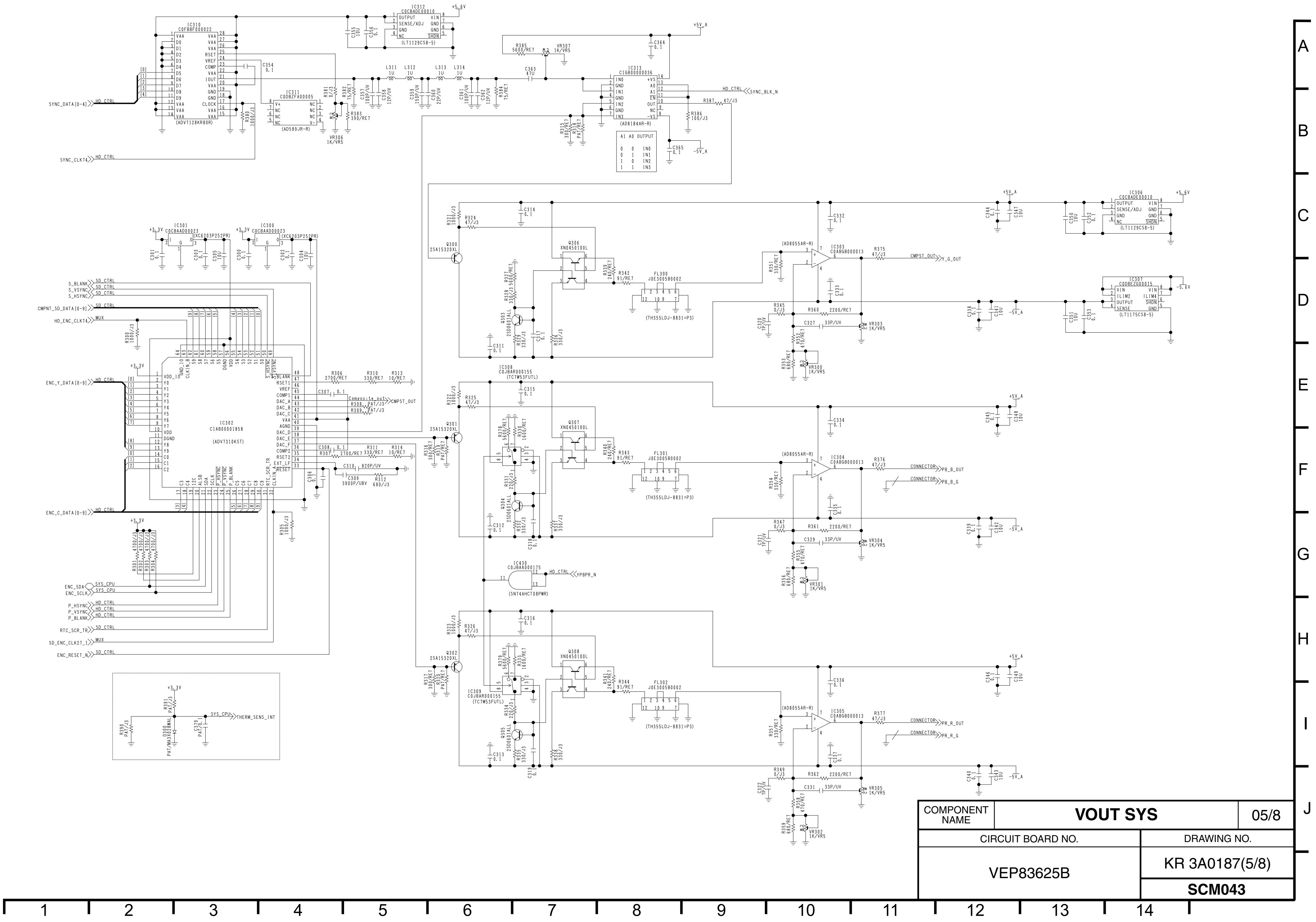
COMPONENT NAME	VOUT SYS	02/8
CIRCUIT BOARD NO.		DRAWING NO.
VEP83625B		KR 3A0187(2/8)
		SCM040


IC150
C1ZBZ0002432
(XC2S400E-6FT256C)
P150
K1KAGOA00006
(VJS4064N160E)
IC154
C0ZBZ0000466
(DS90CR217MTD)
HD_CTRL_CLK74_1
SUB_YE[0-9]
SUB_YO[0-9]
SUB_PB[0-9]
SUB_PR[0-9]
BUF_AV_DATA[0-7]
BUF_AV_ADRS[0-8]
DWN_PB[0-9]
DWN_PR[0-9]
DWN_YE[0-9]
DWN_YO[0-9]
MUX_Y_DATA[0-7]
MUX_C_DATA[0-7]
SDI_PB_HD_C_DATA[0-9]
SDI_PB_HD_Y_DATA[0-9]
SDI_PB_HD_DATA1[0-1]
SDI_PB_HD_DATA2[0-1]
SDI_PB_HD_DATA3[0-1]
SDI_PB_HD_CLK74[0-1]
HD_CTRL_CLK18
HD_CTRL_CLK74_2
ENC_Y_DATA[0-9]
ENC_C_DATA[0-9]
RESERVED_PIN1
TC_OUT_FRM
YPBPR_N
PROGRAM_N
TCK
MUX_TDO
TMS
+3.3V
+1.8V
+5.6V
J2
TP154
TP155

COMPONENT NAME	VOUT SYS	03/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83625B	KR 3A0187(3/8)	
	SCM041	


IC230
C1ZBZ0002432
(XC2S400E-6FT256C)
IC232
C3ABRG000011
(EDS2516APTA-75)
IC233
C3ABRG000011
(EDS2516APTA-75)
IC236
C1AB00001228
(MB90098A-107)
BUF_AV_WR_N
BUF_AV_RD_N
BUF_RESET_N
SD_CTRL_CS_N
BUF_AV_ADRS[0-7]
BUF_AV_DATA[0-7]
ENC_SD_DATA[0-9]
SUB_YE[0-9]
SD_CTRL_CLK27_1
TP230 PAT/EYF6CU
TP231 PAT/EYF6CU
CMPNT_SD_DATA[0-9]
DONE
INIT_N
SDI_PB_SD_DATA[0-9]
BUF_SYS_FRP
SYS_SSP
SUB_OUT_H
SUB_OUT_FRM
RTC_SCR_TR
ENC_RESET_N
S_BLANK
S_HSYNC
S_VSYNC
CHAR_HD_HSYNC
CHAR_HD_VSYNC
CHAR_HD_MASK
HD_CTRL_DOUT
SDI_PB_SD_H
SDI_PB_SD_FRM
RESERVE_VOUT
MUX_SD_H
MUX_SD_FRM
MUX_SD_CF
SYS_FRP
CCLK
TDO
SD_CTRL_CLK27_2
SD_CTRL_CLK74
MUX_SD_DATA[0-9]
SD_BUS_A[0-9]
SD_ADRS_A[0-12]
SD_CTRL_A[0-8]
SD_BUS_B[0-9]
SD_ADRS_B[0-12]
SD_CTRL_B[0-8]
CHAR_CS_N
CHAR_SIN
CHAR_SCLK
CHAR_DATA_INT
CHAR_GATE_INT
CHAR_BUSY
CHAR_DATA_SYSH
CHAR_GATE_SYSH
TP232 EYF6CU
TP233 EYF6CU
BUF_RESET_N
PROGRAM_N
TCK
HD_CTRL_TDO
TMS
+3.3V
+1.8V

COMPONENT NAME	VOUT SYS	04/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83625B	KR 3A0187(4/8)	
	SCM042	


IC310
C0FBBF000022
(ADV7128KR80R)
SYNC_DATA[0-4]
HD_CTRL
SYNC_CLK74
IC312
C0CBADE00010
(LT1129CS8-5)
+5_6V
IC311
C0DBZFA00005
(AD589JR-R)
VR306
1K/VR5
L311
L312
L313
L314
C363
47U
R385
5600/RE7
VR307
1K/VR5
+5V_A
C364
0.1
IC313
C1GB00000036
(AD8184AR-R)
HD_CTRL
SYNC_BLK_N
R387
47/J3
R386
100/J3
C365
0.1
-5V_A
A1 A0 OUTPUT
0 0 IN0
0 1 IN1
1 0 IN2
1 1 IN3
IC306
C0CBADE00010
(LT1129CS8-5)
+5_6V
IC307
C0DBEZG00015
(LT1175CS8-5)
-5_6V
IC301
C0CBAAD00023
(XC6203P252PR)
IC300
C0CBAAD00023
(XC6203P252PR)
+3_3V
S_BLANK
S_VSYNC
S_HSYNC
SD_CTRL
CMPNT_SD_DATA[0-9]
HD_ENC_CLK74
MUX
R300
1000/J3
ENC_Y_DATA[0-9]
IC302
C1AB00001858
(ADV7310KST)
ENC_C_DATA[0-9]
R305
1000/J3
R301 4700/J3
R302 4700/J3
R303 4700/J3
R304 4700/J3
ENC_SDA
ENC_SCLK
SYS_CPU
P_HSYNC
P_VSYNC
P_BLANK
RTC_SCR_TR
SD_ENC_CLK27_1
ENC_RESET_N
R306
2700/RE7
R310
330/RE7
R313
10/RE7
C307
Composite_out
CMPST_OUT
R308
R309
PAT/J3
C308
R307
2700/RE7
R311
330/RE7
R314
10/RE7
C310
820P/UV
C309
3900P/UBV
R312
680/J3
Q300
2SA1532QXL
Q301
2SA1532QXL
Q302
2SA1532QXL
Q303
2SD0601ALL
Q304
2SD0601ALL
Q305
2SD0601ALL
Q306
XN0450100L
Q307
XN0450100L
Q308
XN0450100L
IC308
C0JBAR000155
(TC7W53FUTL)
IC309
C0JBAR000155
(TC7W53FUTL)
IC430
C0JBAA000175
(SN74AHCT08PWR)
HD_CTRL
YPBPR_N
FL300
J0E3005B0002
(TH355LDJ-8831=P3)
FL301
J0E3005B0002
(TH355LDJ-8831=P3)
FL302
J0E3005B0002
(TH355LDJ-8831=P3)
IC303
C0ABGB000013
(AD8055AR-R)
R375
47/J3
CMPST_OUT
Y_G_OUT
IC304
C0ABGB000013
(AD8055AR-R)
R376
47/J3
CONNECTOR
PB_B_OUT
PB_B_G
IC305
C0ABGB000013
(AD8055AR-R)
R377
47/J3
CONNECTOR
PR_R_OUT
PR_R_G
R360 2200/RE7
R361 2200/RE7
R362 2200/RE7
C327 33P/UV
C329 33P/UV
C331 33P/UV
VR303 1K/VR5
VR304 1K/VR5
VR305 1K/VR5
VR300 1K/VR5
VR301 1K/VR5
VR302 1K/VR5
R391
PAT/J3
R390
PAT/J3
D300
PAT/MA3X028WAL
C370
PAT/0.1
SYS_CPU
THERM_SENS_INT
A
B
C
D
E
F
G
H
I
J
1
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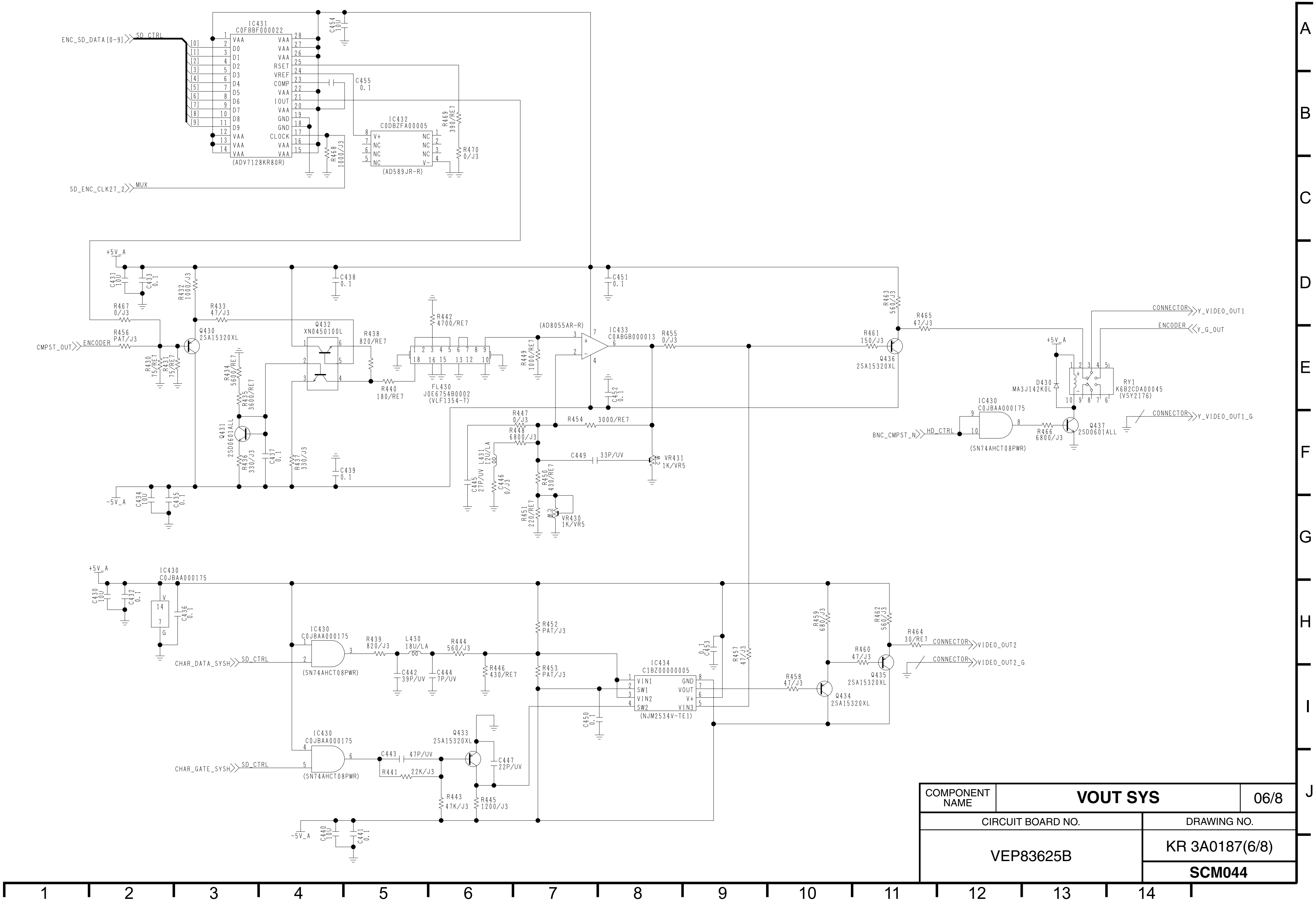
COMPONENT NAME	VOUT SYS		05/8
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83625B		KR 3A0187(5/8)	
		SCM043	


ENC_SD_DATA[0-9]
SD_CTRL
IC431
C0FBBF000022
(ADV7128KR80R)
VAA
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
RSET
VREF
COMP
IOUT
GND
CLOCK
C454 10U
C455 0.1
IC432
C0DBZFA00005
(AD589JR-R)
V+
NC
V-
R469 390/RE7
R470 0/J3
R468 1000/J3
SD_ENC_CLK27_2
MUX
+5V_A
C431 10U
C433 0.1
R432 1000/J3
R467 0/J3
R433 47/J3
CMPST_OUT
ENCODER
R456 PAT/J3
R430 75/RE7
R431 75/RE7
Q430 2SA1532OXL
Q432 XN0450100L
R438 820/RE7
C438 0.1
R442 4700/RE7
FL430 J0E6754B0002 (VLF1354-T)
R440 180/RE7
R434 560/RE7
R435 3600/RE7
Q431 2SD0601ALL
R436 330/J3
C437 0.1
R437 330/J3
C439 0.1
-5V_A
C434 10U
C435 0.1
(AD8055AR-R)
IC433 C0ABGB000013
R449 1000/RE7
C451 0.1
C452 0.1
R455 0/J3
R447 0/J3
R448 6800/J3
R454 3000/RE7
L431 12U/LA
C445 27P/UV
C446 0/J3
C449 33P/UV
VR431 1K/VR5
R450 430/RE7
R451 220/RE7
VR430 1K/VR5
R463 560/J3
R465 47/J3
R461 150/J3
Q436 2SA1532OXL
CONNECTOR
Y_VIDEO_OUT1
Y_G_OUT
D430 MA3J142K0L
RY1 K6B2CDA00045 (VSY2176)
IC430 C0JBAA000175
(SN74AHCT08PWR)
BNC_CMPST_N
HD_CTRL
R466 6800/J3
Q437 2SD0601ALL
Y_VIDEO_OUT1_G
C430 10U
C432 0.1
C436 0.1
R452 PAT/J3
R453 PAT/J3
CHAR_DATA_SYSH
R439 820/J3
L430 18U/LA
R444 560/J3
C442 39P/UV
C444 7P/UV
R446 430/RE7
C453 0.1
IC434 C1BZ00000005 (NJM2534V-TE1)
VIN1
SW1
VIN2
SW2
VOUT
VIN3
R457 47/J3
C450 0.1
R459 680/J3
R462 560/J3
R464 30/RE7
VIDEO_OUT2
VIDEO_OUT2_G
R460 47/J3
Q435 2SA1532OXL
R458 47/J3
Q434 2SA1532OXL
CHAR_GATE_SYSH
C443 47P/UV
R441 22K/J3
Q433 2SA1532OXL
C447 22P/UV
R443 47K/J3
R445 1200/J3
C440 10U
C441 0.1
A
B
C
D
E
F
G
H
I
J
1
2
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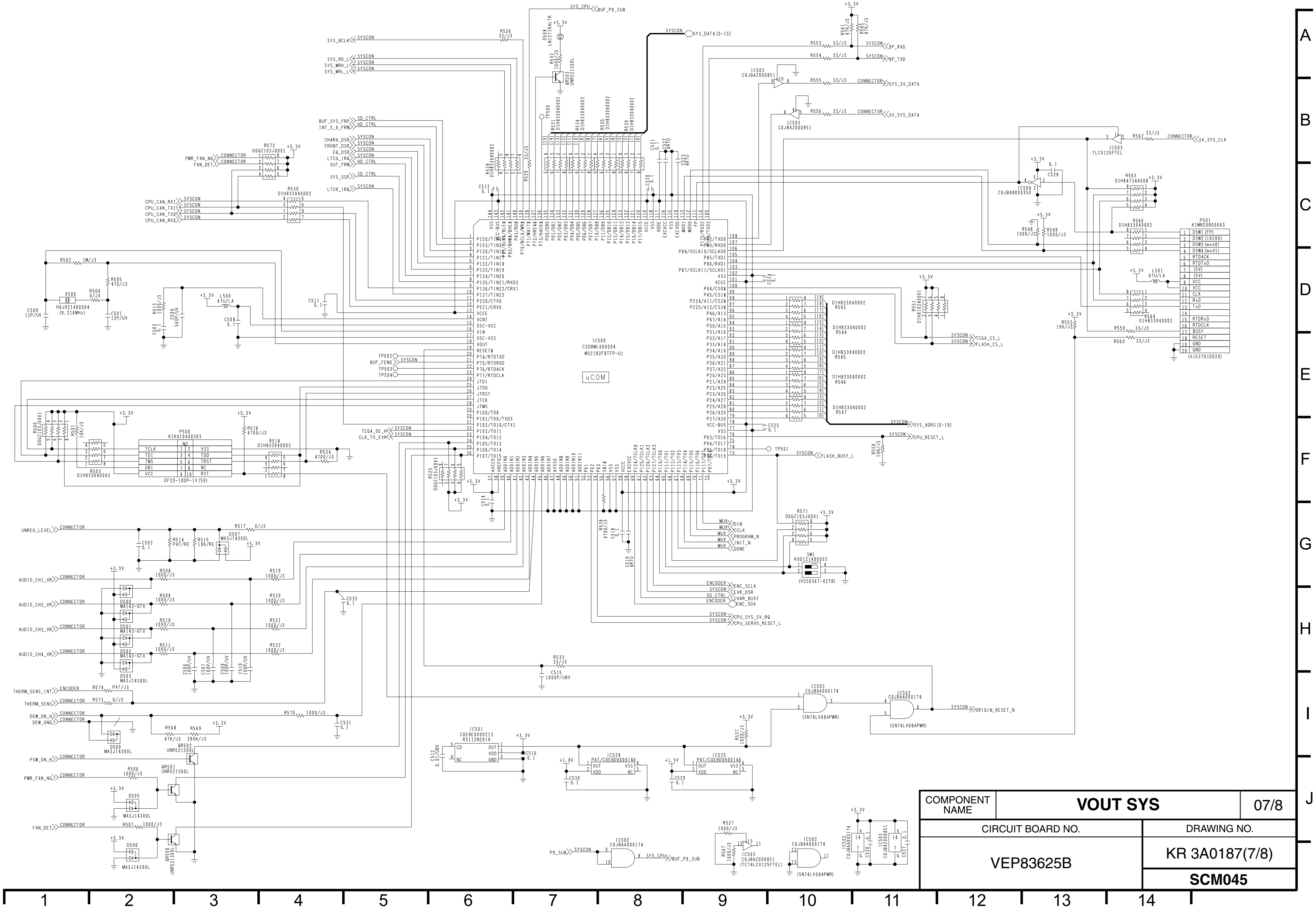
COMPONENT NAME	VOUT SYS	06/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83625B	KR 3A0187(6/8)	
	SCM044	



A
B
C
D
E
F
G
H
I
J
1
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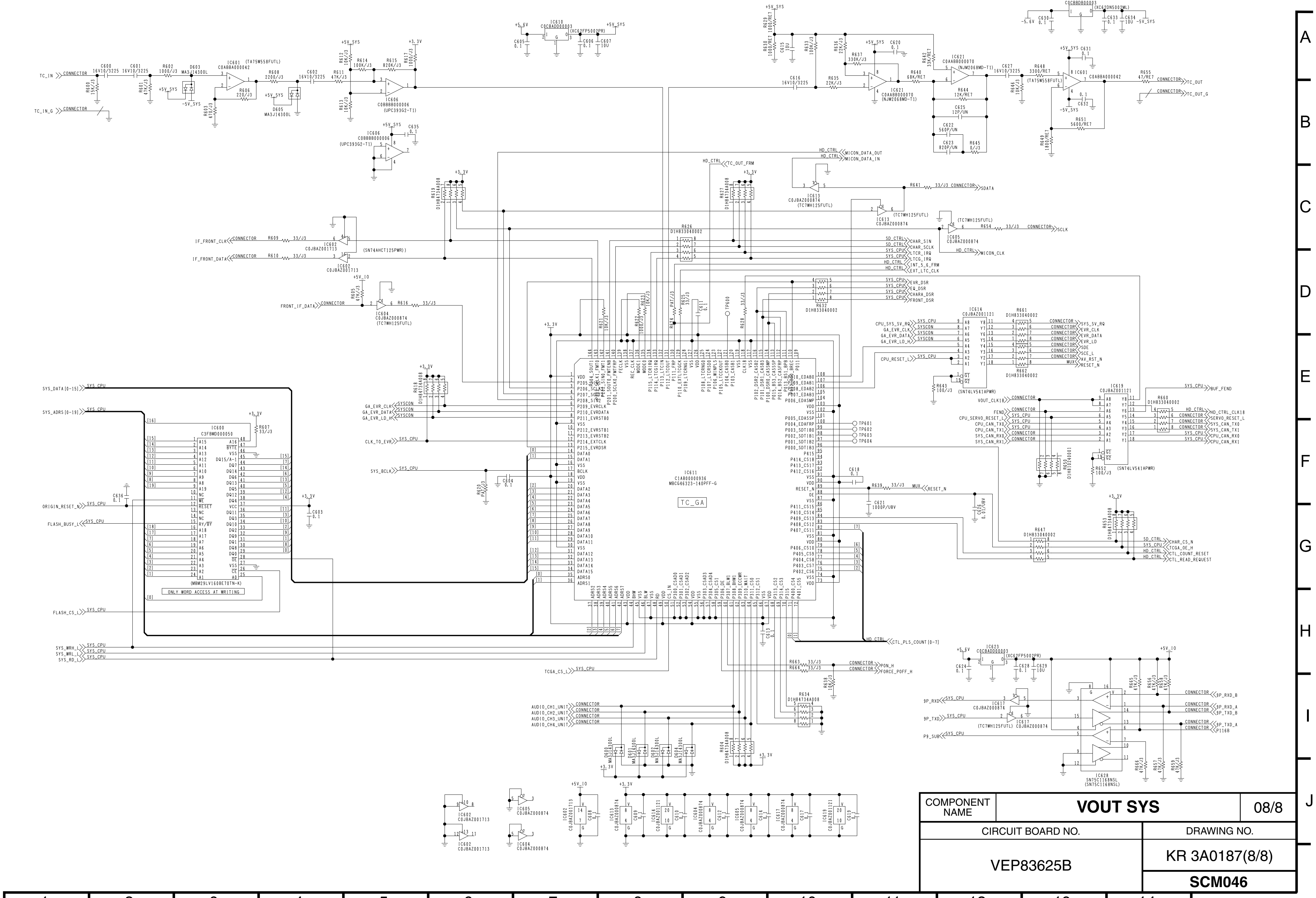
13
14
IC500
C2DBML000004
M32182F8TFP-U1
uCOM
SYS_CPU
BUF_P9_SUB
SYS_BCLK
SYS_RD_L
SYS_WRH_L
SYS_WRL_L
SYSCON
SYS_DATA[0-15]
SYS_ADRS[0-19]
SP_RXD
SP_TXD
CONNECTOR
SS_SV_DATA
SV_SYS_DATA
SV_SYS_CLK
BUF_SYS_FRP
INT_5_6_FRM
SD_CTRL
HD_CTRL
CHARA_DSR
FRONT_DSR
EQ_DSR
LTCG_IRQ
OUT_FRM
SYS_SSP
LTCR_IRQ
PWR_FAN_NG
FAN_DET
CPU_CAN_RX1
CPU_CAN_TX1
CPU_CAN_TX0
CPU_CAN_RX0
X500
H0J921400004
(9.216MHz)
P500
K1KA10A00303
TCLK
TDI
TMS
DBI
VCC
VSS
TDD
TRST
NC
RST
DF20-10DP-1V(59)
TP502
TP503
TP504
BUF_FEND
TCGA_OE_H
CLK_TO_EVR
TCGA_CS_L
FLASH_CS_L
CPU_RESET_L
FLASH_BUSY_L
TP501
P501
K1MN20B00043
DSW1(FP)
DSW2(19200)
DSW3(mod0)
DSW4(mod1)
RTDACK
RTDTxD
(5V)
VCC
CLK
RxD
TxD
RTDRxD
RTDCLK
BUSY
RESET
GND
(VJS3791D020)
UNREG_LEVEL
AUDIO_CH1_VR
AUDIO_CH2_VR
AUDIO_CH3_VR
AUDIO_CH4_VR
THERM_SENS_INT
THERM_SENS
DEW_ON_H
DEW_GND
PSW_ON_H
PWR_FAN_NG
FAN_DET
ENCODER
MUX
DIN
CCLK
PROGRAM_N
INIT_N
DONE
SW1
K0D121A00003
(VSS0367-02TB)
ENC_SCLK
EVR_DSR
CHAR_BUSY
ENC_SDA
CPU_SYS_SV_RQ
CPU_SERVO_RESET_L
ORIGIN_RESET_N
IC502
C0JBAA000174
(SN74LV08APWR)
IC501
C0EBE0000213
R3112N291A
IC524
PAT/C0EBD0000146
IC525
PAT/C0EBD0000146
IC503
C0JBAZ000851
(TC74LCX125FTEL)
TLCX125FTEL
IC504
C0JBAB000350
P9_SUB
BUF_P9_SUB
+3.3V
+1.8V
+1.5V
D500
D501
D502
D503
MA143-GTX
MA3J14300L
D505
D506
D507
D508
D509
QR500
QR501
QR502
QR503
UNR521300L

COMPONENT NAME	VOUT SYS		07/8
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83625B		KR 3A0187(7/8)	
		SCM045	


TC_IN
TC_IN_G
IC601 (TA75W558FUTL)
IC606 (UPC393G2-T1)
D603 MA3J14300L
D605 MA3J14300L
IC610 C0CBADD00003 (XC62FP5002PR)
IC629 C0CBBD000003 (XC62DN5002ML)
IC621 C0ABB000070 (NJM2068MD-T1)
TC_OUT
TC_OUT_G
HD_CTRL
TC_OUT_FRM
MICON_DATA_OUT
MICON_DATA_IN
IC613 C0JBAZ000874 (TC7WH125FUTL)
SDATA
SCLK
MICON_CLK
IF_FRONT_CLK
IF_FRONT_DATA
IC602 C0JBAZ001713 (SN74AHCT125PWR)
R626 D1H833040002
CHAR_SIN
CHAR_SCLK
LTCR_IRQ
LTCG_IRQ
INT_5_6_FRM
EXT_LTC_CLK
EVR_DSR
EQ_DSR
CHARA_DSR
FRONT_DSR
FRONT_IF_DATA
IC604 C0JBAZ000874 (TC7WH125FUTL)
TP600
IC614 C0JBAZ001121 (SN74LV541APWR)
CPU_SYS_SV_RQ
GA_EVR_CLK
GA_EVR_DATA
GA_EVR_LD_H
CPU_RESET_L
SYS_SV_RQ
EVR_CLK
EVR_DATA
EVR_LD
SDE
SCC_L
AV_RST_N
RESET_N
SYS_DATA[0-15]
SYS_ADRS[0-19]
CLK_TO_EVR
SYS_BCLK
IC611 C1AB00000936 MBCG46323-140PFF-G
TC_GA
IC600 C3FBMD000050 (MBM29LV160BE70TN-K)
ONLY WORD ACCESS AT WRITING
ORIGIN_RESET_N
FLASH_BUSY_L
FLASH_CS_L
SYS_WRH_L
SYS_WRL_L
SYS_RD_L
TCGA_CS_L
IC619 C0JBAZ001121 (SN74LV541APWR)
BUF_FEND
VOUT_CLK18
HD_CTRL_CLK18
SERVO_RESET_L
SYS_CAN_TX0
SYS_CAN_TX1
CPU_CAN_RX0
CPU_CAN_RX1
TP601
TP602
TP603
TP604
MUX
CHAR_CS_N
TCGA_OE_H
CTL_COUNT_RESET
CTL_READ_REQUEST
CTL_PLS_COUNT[0-7]
PON_H
FORCE_POFF_H
AUDIO_CH1_UNIT
AUDIO_CH2_UNIT
AUDIO_CH3_UNIT
AUDIO_CH4_UNIT
IC623 C0CBADD00003 (XC62FP5002PR)
IC617 C0JBAZ000874 (TC7WH125FUTL)
IC628 SN75C1168NSL
9P_RXD
9P_TXD
P9_SUB
9P_RXD_B
9P_RXD_A
9P_TXD_B
9P_TXD_A
P116B
A
B
C
D
E
F
G
H
I
J
1
2
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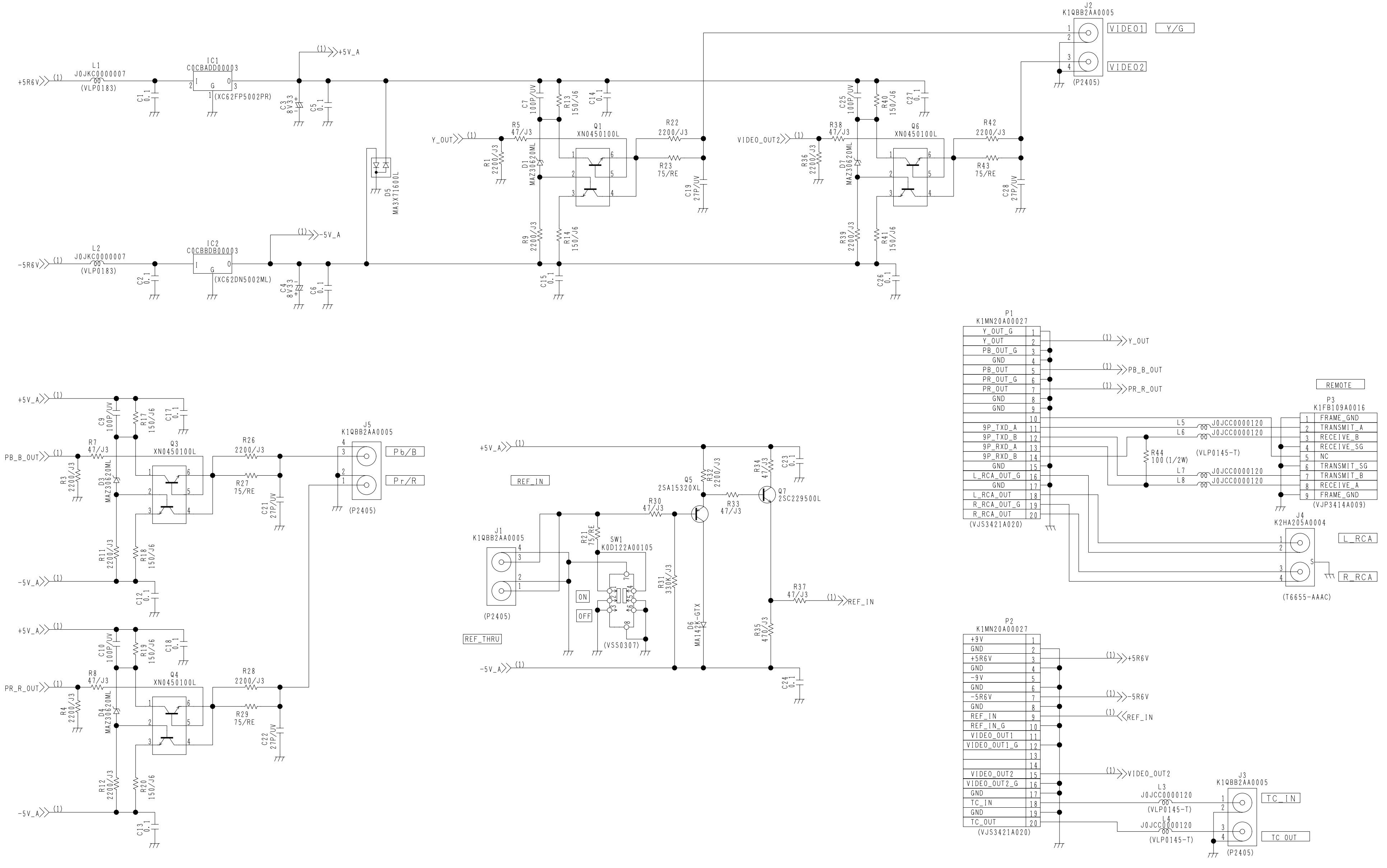
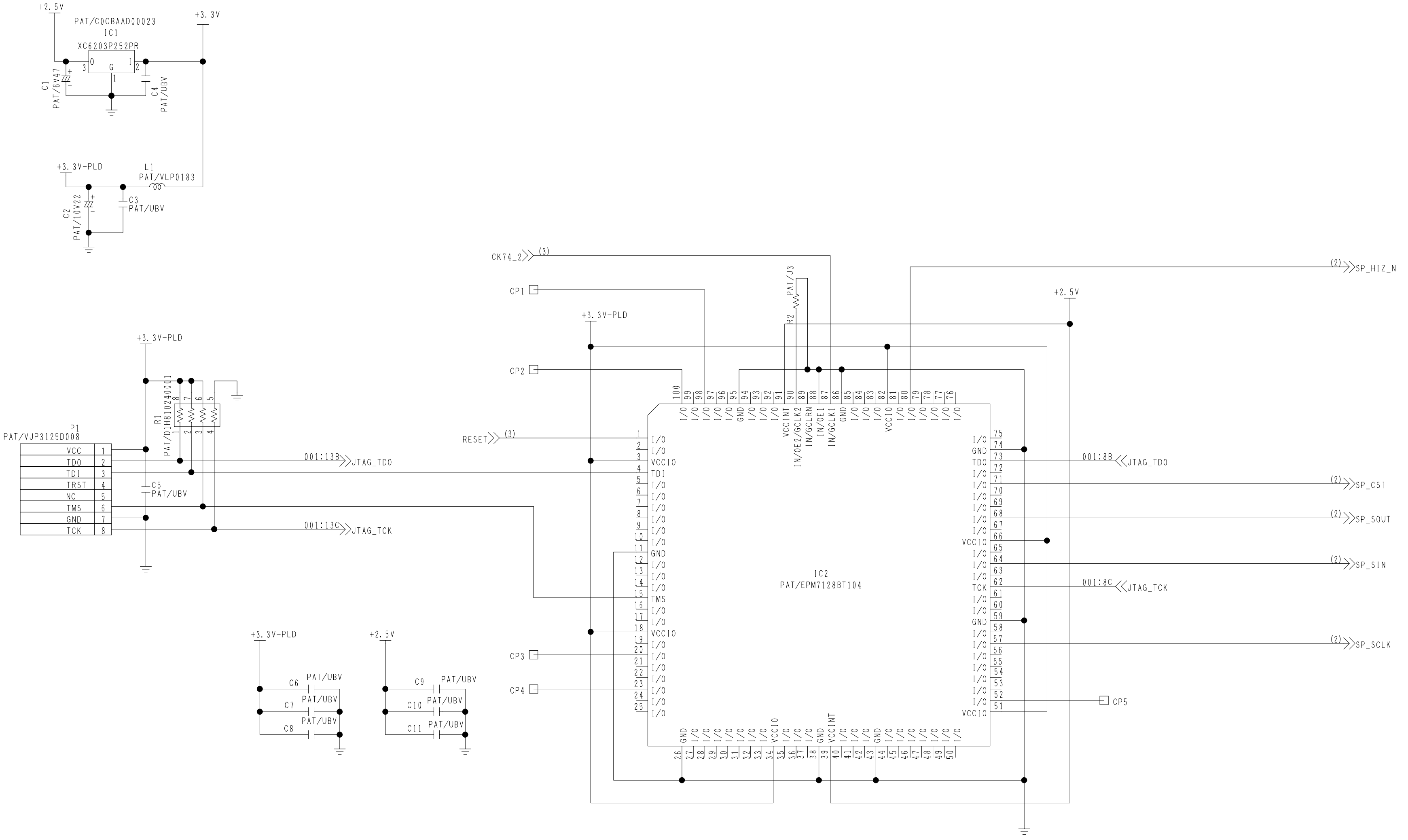
COMPONENT NAME	VOUT SYS	08/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83625B	KR 3A0187(8/8)	
	SCM046	



+5R6V
L1 J0JKC0000007 (VLP0183)
IC1 C0CBADD00003 (XC62FP5002PR)
+5V_A
-5R6V
L2 J0JKC0000007 (VLP0183)
IC2 C0CBBDB00003 (XC62DN5002ML)
-5V_A
D5 MA3X71600L
Y_OUT
Q1 XN0450100L
D1 MAZ30620ML
VIDEO_OUT2
Q6 XN0450100L
D7 MAZ30620ML
J2 K1QBB2AA0005
VIDEO1
Y/G
VIDEO2
(P2405)
PB_B_OUT
Q3 XN0450100L
D3 MAZ30620ML
J5 K1QBB2AA0005
Pb/B
Pr/R
PR_R_OUT
Q4 XN0450100L
D4 MAZ30620ML
REF_IN
J1 K1QBB2AA0005
SW1 K0D122A00105 (VSS0307)
ON
OFF
REF_THRU
Q5 2SA15320XL
Q7 2SC229500L
D6 MA142A-GTX
REF_IN
P1 K1MN20A00027 (VJS3421A020)
Y_OUT_G
Y_OUT
PB_OUT_G
GND
PB_OUT
PR_OUT_G
PR_OUT
9P_TXD_A
9P_TXD_B
9P_RXD_A
9P_RXD_B
L_RCA_OUT_G
L_RCA_OUT
R_RCA_OUT_G
R_RCA_OUT
PB_B_OUT
PR_R_OUT
REMOTE
P3 K1FB109A0016 (VJP3414A009)
FRAME_GND
TRANSMIT_A
RECEIVE_B
RECEIVE_SG
NC
TRANSMIT_SG
TRANSMIT_B
RECEIVE_A
L5 L6 L7 L8 J0JCC0000120 (VLP0145-T)
R44 100 (1/2W)
J4 K2HA205A0004 (T6655-AAAC)
L_RCA
R_RCA
P2 K1MN20A00027 (VJS3421A020)
+9V
+5R6V
-9V
-5R6V
REF_IN_G
VIDEO_OUT1
VIDEO_OUT1_G
VIDEO_OUT2_G
TC_IN
TC_OUT
L3 L4 J0JCC0000120 (VLP0145-T)
J3 K1QBB2AA0005 (P2405)
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	V_JACK	1/1
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83626A	KR 3A0010(1/1)	
	SCM102	


+2.5V
PAT/C0CBAAD00023
IC1
XC6203P252PR
+3.3V
C1
PAT/6V47
C4
PAT/UBV
+3.3V-PLD
L1
PAT/VLP0183
C2
PAT/10V22
C3
PAT/UBV
CK74_2
(3)
CP1
CP2
CP3
CP4
CP5
R2
PAT/J3
+3.3V-PLD
+2.5V
(2)
SP_HIZ_N
R1
PAT/D1H8102400001
P1
PAT/VJP3125D008
VCC
TDO
TDI
TRST
NC
TMS
GND
TCK
C5
PAT/UBV
001:13B
JTAG_TDO
001:13C
JTAG_TCK
RESET
IC2
PAT/EPM7128BT104
VCCINT
IN/OE2/GCLK2
IN/GCLRN
IN/OE1
IN/GCLK1
VCCIO
I/O
GND
TDI
TMS
TDO
TCK
001:8B
JTAG_TDO
001:8C
JTAG_TCK
SP_CSI
SP_SOUT
SP_SIN
SP_SCLK
C6
C7
C8
PAT/UBV
C9
C10
C11
A
B
C
D
E
F
G
H
I
J
1
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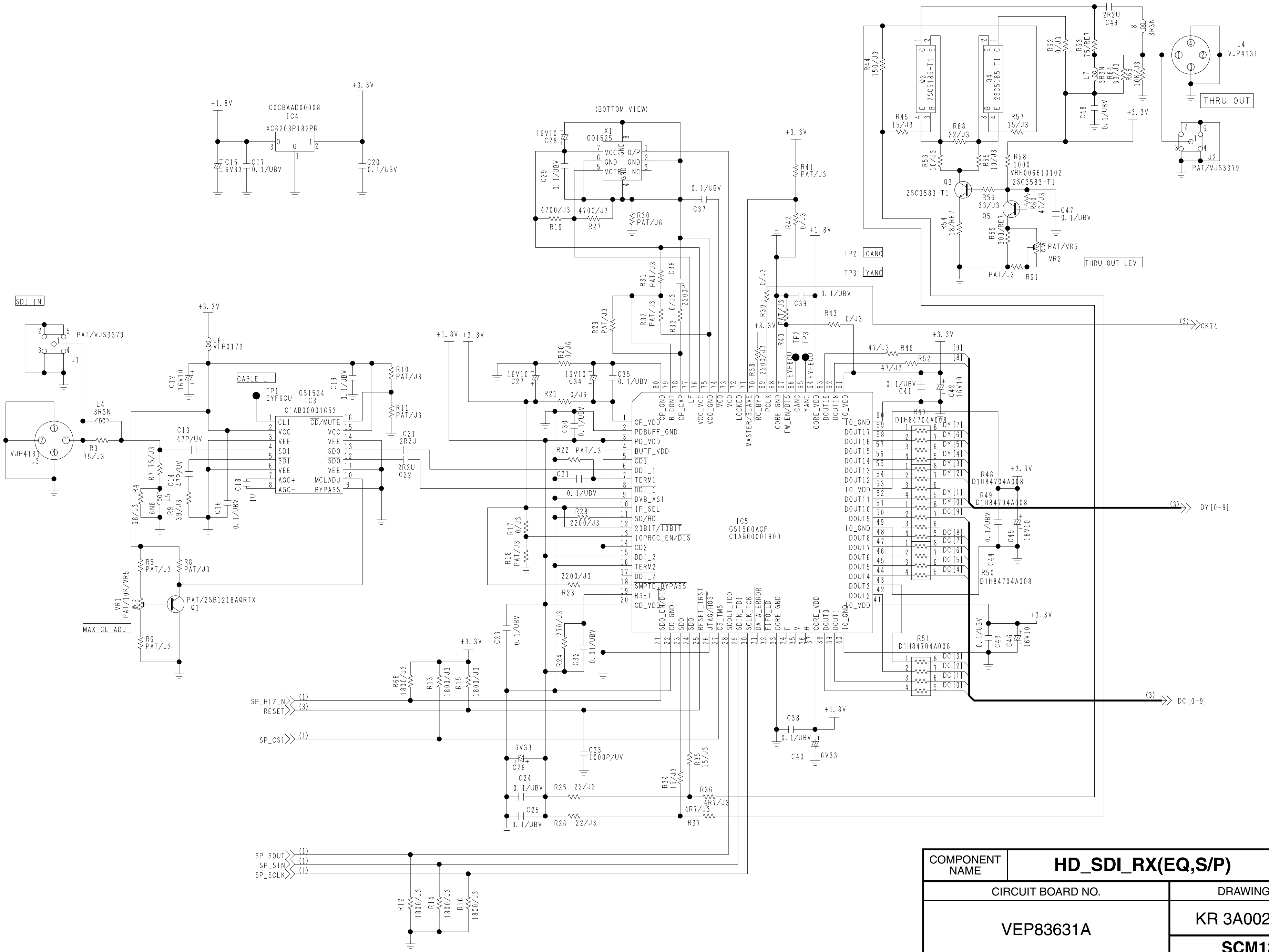
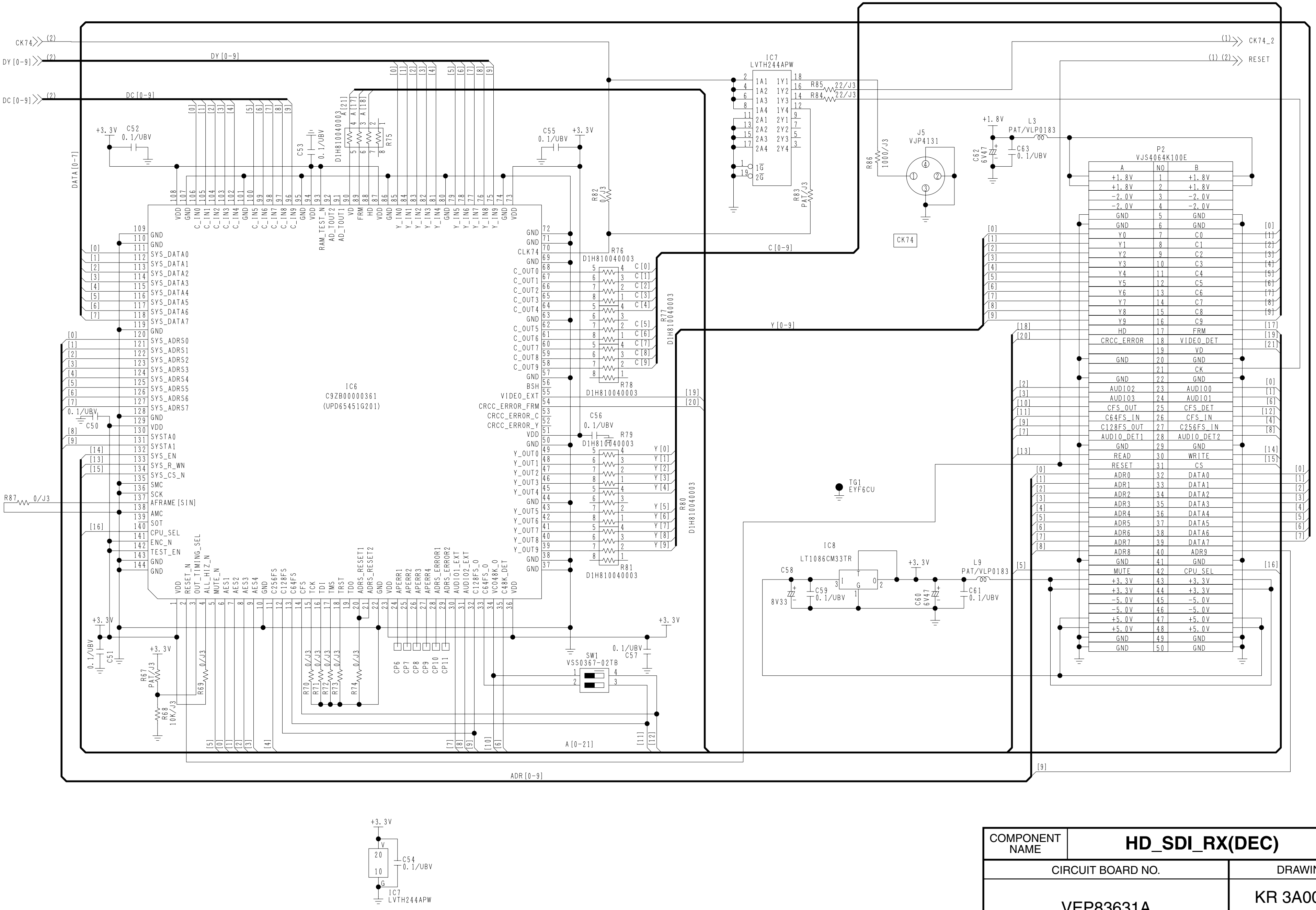
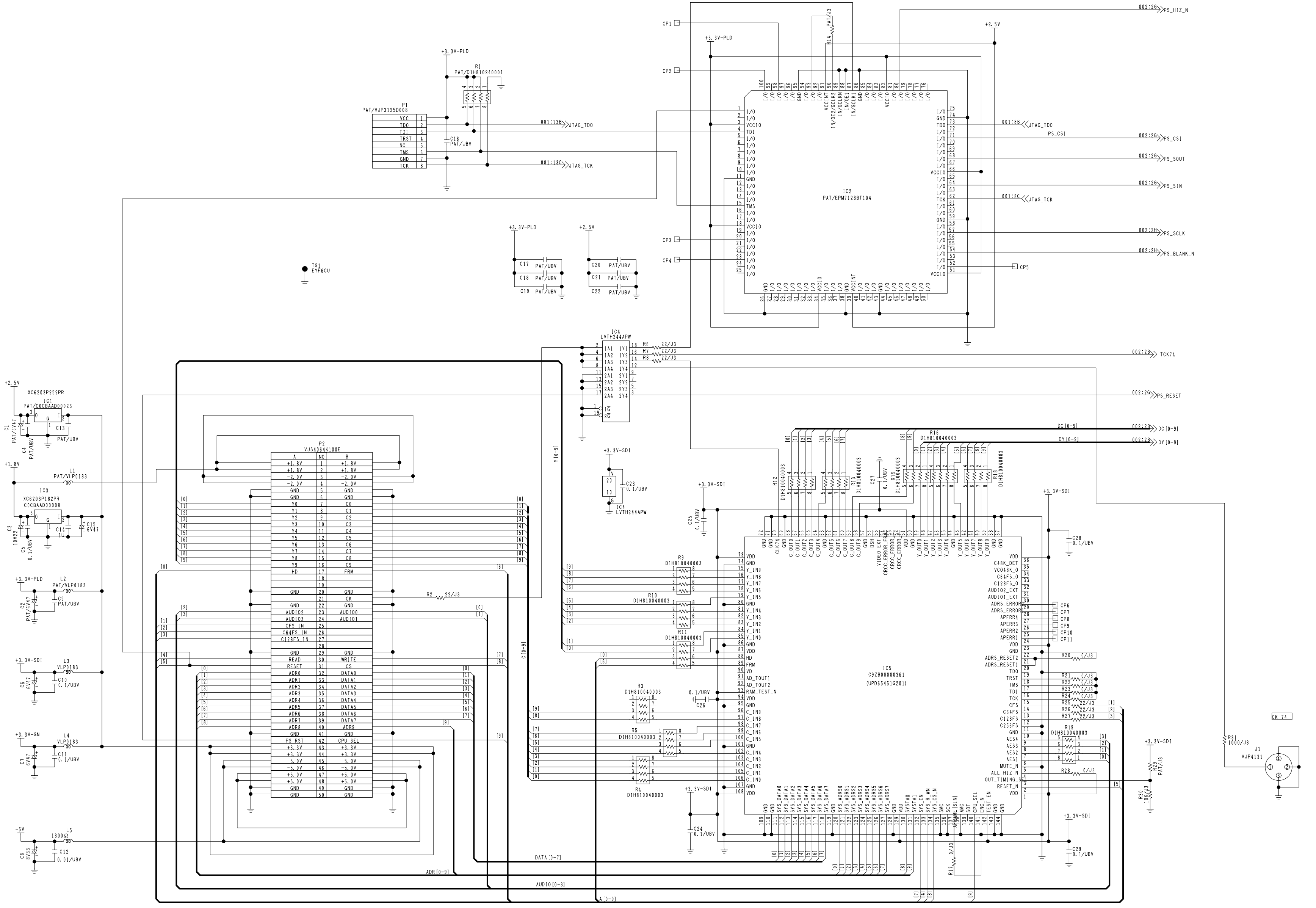
COMPONENT NAME	HD_SDI_RX(PLD)	01/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83631A	KR 3A0028(1/3)	
	SCM133	


SDI IN
PAT/VJS3379
J1
VJP4131
J3
L4
3R3N
R3
75/J3
+3.3V
L6
VLP0173
C12
16V10
CABLE L
TP1
EYF6CU
GS1524
IC3
C1AB00001653
CLI
VCC
VEE
SDI
SDI
VEE
AGC+
AGC-
CD/MUTE
VCC
VEE
SDO
SDO
VEE
MCLADJ
BYPASS
C19
0.1/UBV
R10
PAT/J3
R11
PAT/J3
C13
47P/UV
C14
47P/UV
R7 75/J3
R4
68/J3
L5
6N8
R9
39/J3
C16
0.1/UBV
C18
1U
C21
2R2U
C22
2R2U
R5
PAT/J3
R8
PAT/J3
VR1
PAT/10K/VR5
PAT/2SB1218AQRTX
Q1
MAX CL ADJ
R6
PAT/J3
+1.8V
C0CBAAD00008
IC4
XC6203P182PR
C15
6V33
C17
0.1/UBV
C20
0.1/UBV
(BOTTOM VIEW)
X1
G01525
16V10
C28
C29
0.1/UBV
VCC
GND
VCTR
O/P
GND
NC
R19
4700/J3
R27
4700/J3
R30
PAT/J6
C37
0.1/UBV
R31
PAT/J3
C36
2200P
R29
PAT/J3
R32
PAT/J3
R33
0/J3
R20
0/J6
C27
16V10
C34
16V10
C35
0.1/UBV
R21
0/J6
C30
0.1/UBV
R22
PAT/J3
C31
0.1/UBV
R28
2200/J3
R17
0/J3
R18
PAT/J3
R23
2200/J3
C23
0.1/UBV
R24
270/J3
C32
0.01/UBV
IC5
GS1560ACF
C1AB00001900
CP_VDD
PDBUFF_GND
PD_VDD
BUFF_VDD
CD1
DDI_1
TERM1
DDI_1
DVB_ASI
IP_SEL
SD/HD
20BIT/10BIT
IOPROC_EN/DIS
CD2
DDI_2
TERM2
DDI_2
SMPTE_BYPASS
RSET
CD_VDD
CP_GND
LB_CONT
CP_CAP
LF
VCO_VCC
VCO_GND
VCO
VCO
LOCKED
MASTER/SLAVE
RC_BYP
PCLK
CORE_GND
FW_EN/DIS
VANC
YANC
CORE_VDD
DOUT19
DOUT18
IO_VDD
IO_GND
DOUT17
DOUT16
DOUT15
DOUT14
DOUT13
DOUT12
IO_VDD
DOUT11
DOUT10
DOUT9
IO_GND
DOUT8
DOUT7
DOUT6
DOUT5
DOUT4
DOUT3
DOUT2
IO_VDD
SDO_EN/DIS
CD_GND
SDO
SDO
RESET_TRST
JTAG/HOST
CS_TMS
SDOUT_TDO
SDIN_TDI
SCLK_TCK
DATA_ERROR
FIFO_LD
CORE_GND
F
V
H
CORE_VDD
DOUT0
DOUT1
IO_GND
R41
PAT/J3
R42
0/J3
R39
0/J3
R38
2200/J3
R40
PAT/J3
C39
0.1/UBV
TP2: CANC
TP3: YANC
TP2
TP3
EYF6CU
R43
0/J3
(3) CK74
R46
47/J3
R52
47/J3
[9]
[8]
C41
0.1/UBV
C42
16V10
R47
D1H84704A008
DY[7]
DY[6]
DY[5]
DY[4]
DY[3]
DY[2]
DY[1]
DY[0]
DC[9]
DC[8]
DC[7]
DC[6]
DC[5]
DC[4]
R48
D1H84704A008
R49
D1H84704A008
R50
D1H84704A008
(3) DY[0-9]
C44
0.1/UBV
C45
16V10
C43
0.1/UBV
C46
16V10
R51
D1H84704A008
DC[3]
DC[2]
DC[1]
DC[0]
(3) DC[0-9]
C38
0.1/UBV
C40
6V33
SP_HIZ_N (1)
RESET (3)
SP_CS1 (1)
R66
1800/J3
R13
1800/J3
R15
1800/J3
C33
1000P/UV
C26
6V33
C24
0.1/UBV
C25
0.1/UBV
R25 22/J3
R26 22/J3
R34
15/J3
R35
15/J3
R36
4R7/J3
R37
4R7/J3
SP_SOUT (1)
SP_SIN (1)
SP_SCLK (1)
R12
1800/J3
R14
1800/J3
R16
1800/J3
R44
150/J3
Q2
2SC5185-T1
Q4
2SC5185-T1
R45
15/J3
R88
22/J3
R57
15/J3
R53
10/J3
R55
10/J3
R58
1000
VRE006610102
Q3
2SC3583-T1
R56
33/J3
Q5
2SC3583-T1
R60
47/J3
C47
0.1/UBV
R54
18/RE7
R59
300/RE7
PAT/VR5
VR2
PAT/J3
R61
THRU OUT LEV
R62
0/J3
R63
75/RE7
C49
2R2U
L8
3R3N
L7
3R3N
R64
33/J3
R65
10K/J3
C48
0.1/UBV
J4
VJP4131
THRU OUT
J2
PAT/VJS3379

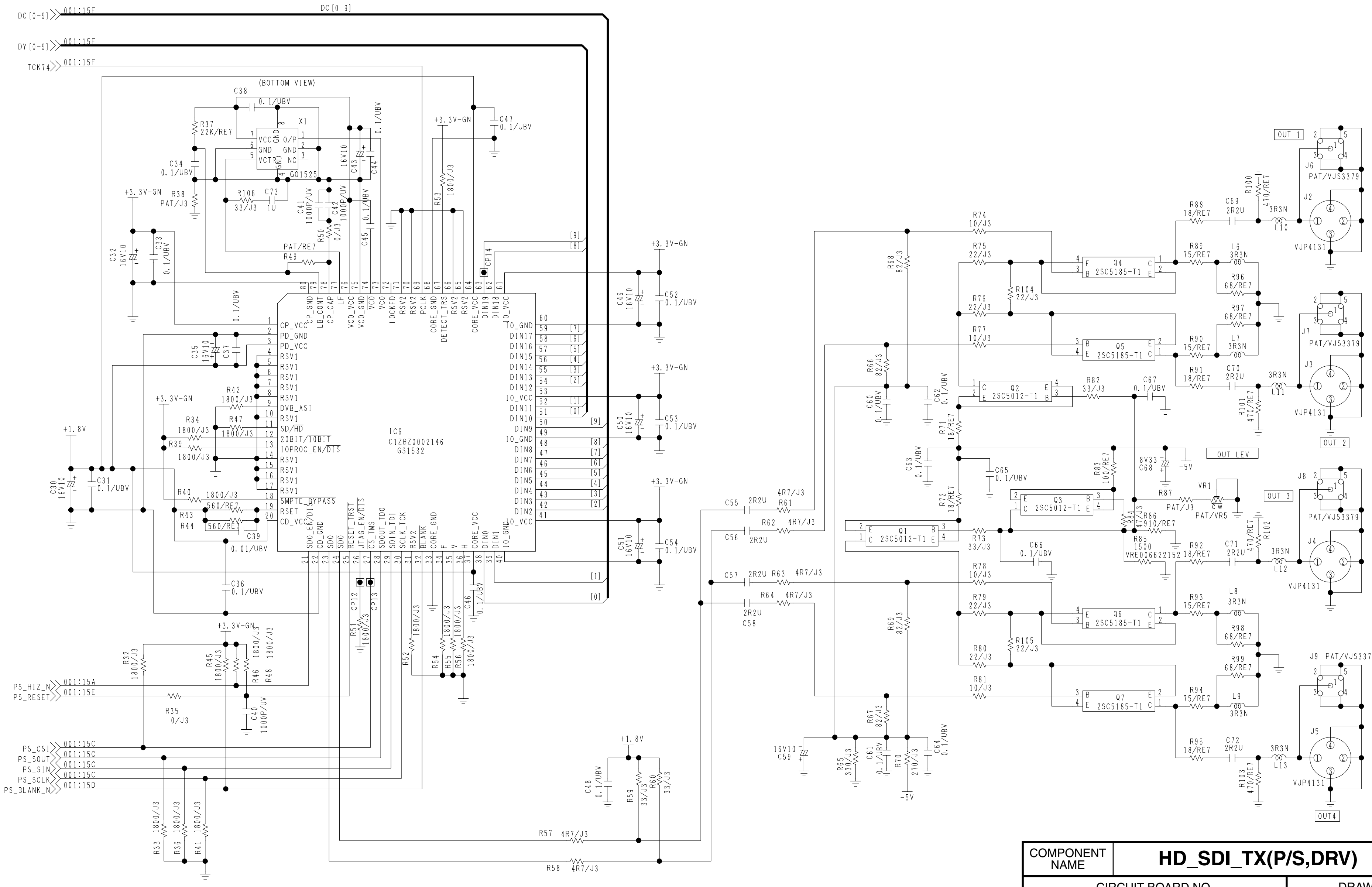
COMPONENT NAME	HD_SDI_RX(EQ,S/P)	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83631A	KR 3A0028(2/3)	
	SCM134	


CK74
DY[0-9]
DC[0-9]
DATA[0-7]
IC6
C9ZB00000361
(UPD65451G201)
IC7
LVTH244APW
J5
VJP4131
P2
VJS4064K100E
IC8
LT1086CM33TR
TG1
EYF6CU
SW1
VSS0367-02TB
CK74
CK74_2
RESET
C[0-9]
Y[0-9]
A[0-21]
ADR[0-9]
R76 D1H810040003
R77 D1H810040003
R78 D1H810040003
R79
R80 D1H810040003
R81 D1H810040003
R75 D1H810040003
L3 PAT/VLP0183
L9 PAT/VLP0183
+3.3V
+1.8V

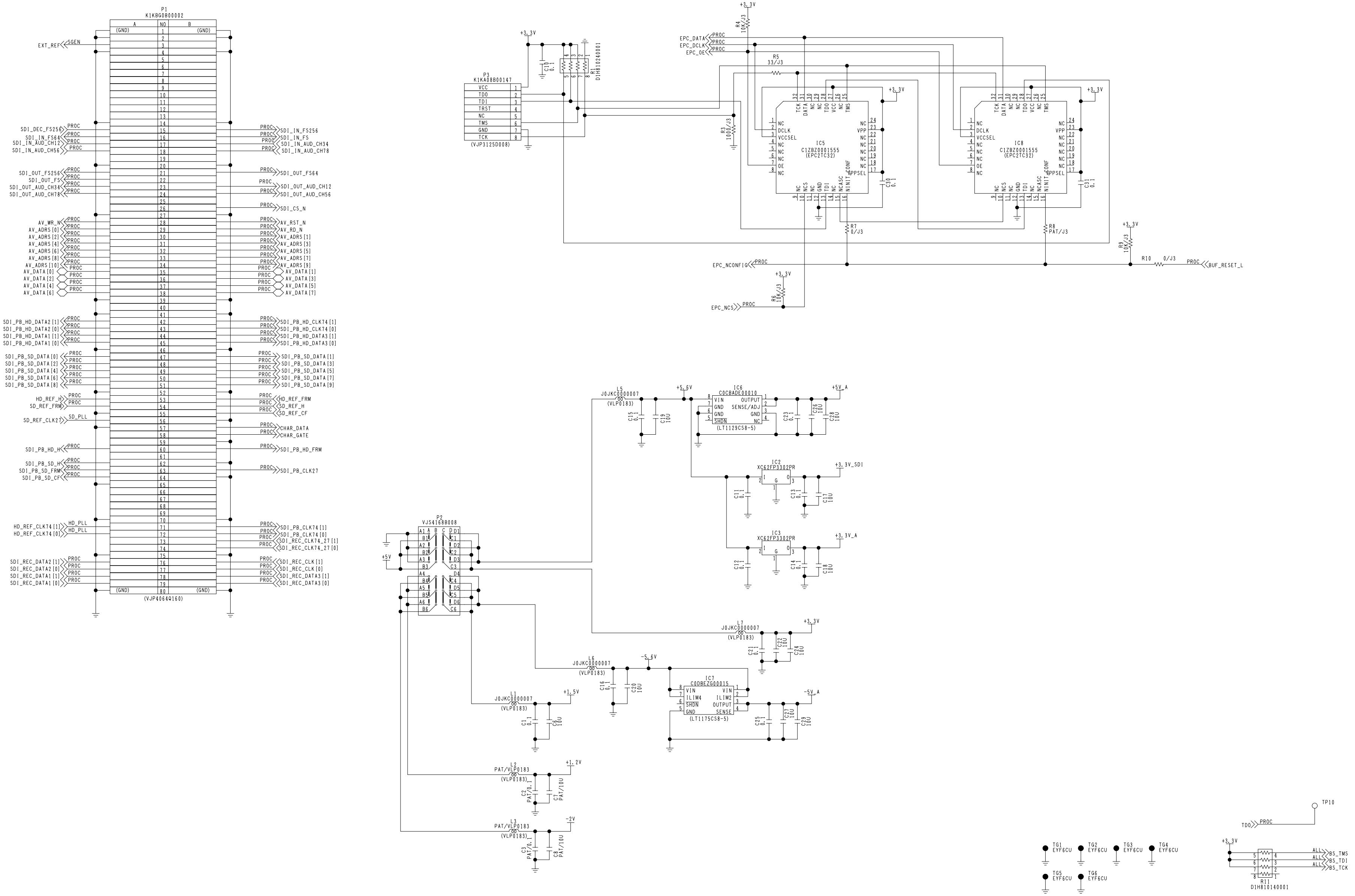
COMPONENT NAME	HD_SDI_RX(DEC)	03/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83631A	KR 3A0028(3/3)	
	SCM135	


IC2
PAT/EPM7128BT104
IC5
C9ZB00000361
(UPD65451GZ01)
IC4
LVTH244APW
P1
PAT/VJP3125D008
P2
VJ54064K100E
IC1
PAT/C0CBAAD00023
IC3
XC6203P182PR
C0CBAAD00008
XC6203P252PR
J1
VJP4131
TG1
EYF6CU
R1
PAT/D1H810240001
R16
D1H810040003
R9
D1H810040003
R10
D1H810040003
R11
D1H810040003
R3
D1H810040003
R4
D1H810040003
R5
D1H810040003
R19
D1H810040003
L1
PAT/VLP0183
L2
PAT/VLP0183
L3
VLP0183
L4
VLP0183
L5
1300Ω
+3.3V-PLD
+2.5V
+1.8V
+3.3V-SDI
+3.3V-GN
-5V
JTAG_TDO
JTAG_TCK
PS_HIZ_N
PS_CSI
PS_SOUT
PS_SIN
PS_SCLK
PS_BLANK_N
PS_RESET
TCK74
DC[0-9]
DY[0-9]
DATA[0-7]
ADR[0-9]
AUDIO[0-3]
A[0-9]
CP1
CP2
CP3
CP4
CP5
CK 74

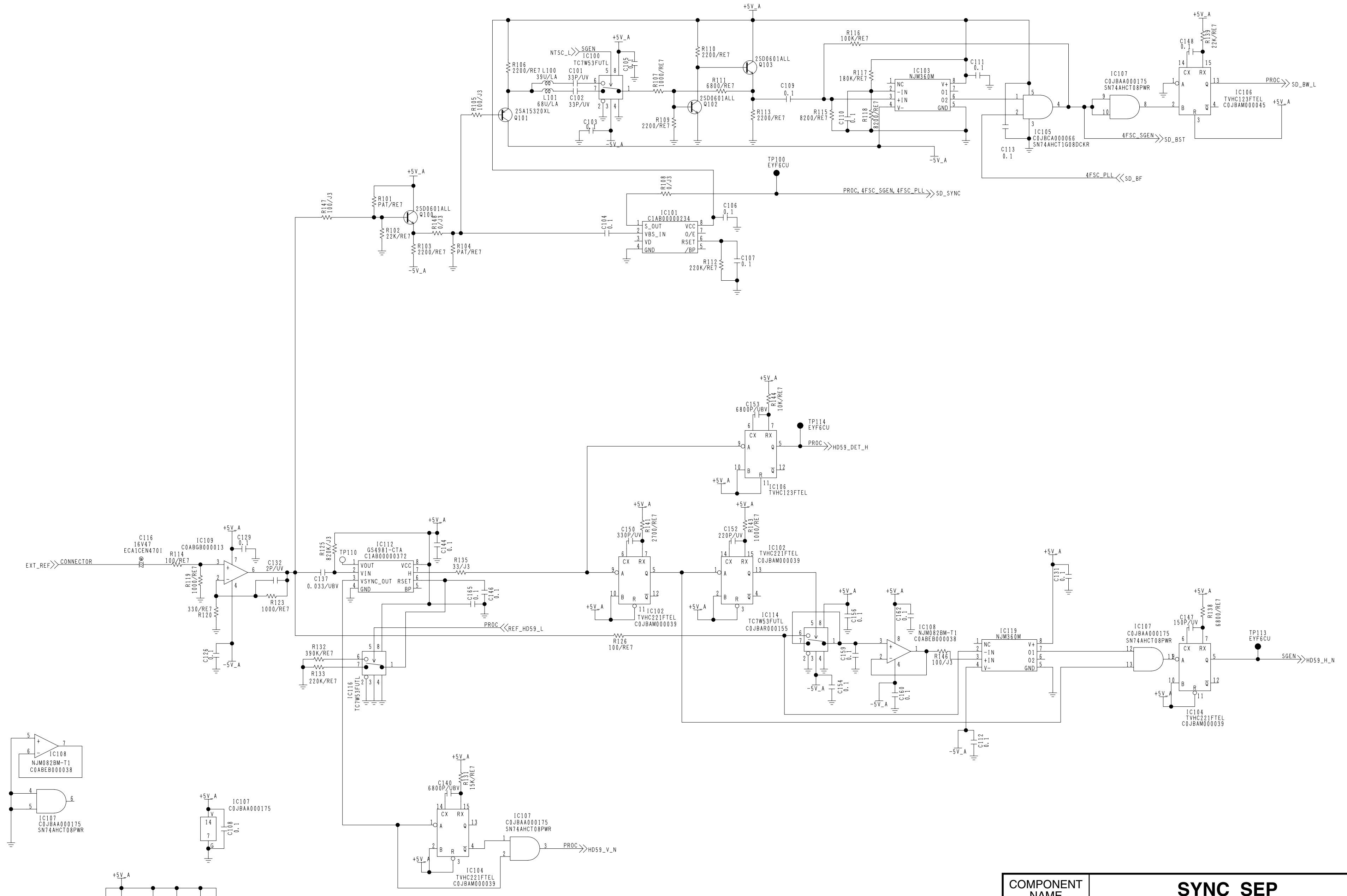
COMPONENT NAME	HD_SDI_TX(ENC/PLD)	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83632A	KR 3A0029(1/2) SCM136	


DC[0-9]
001:15F
DY[0-9]
TCK74
(BOTTOM VIEW)
X1
GO1525
IC6
C1ZBZ0002146
GS1532
CP_VCC
PD_GND
PD_VCC
RSV1
DVB_ASI
SD/HD
20BIT/10BIT
IOPROC_EN/DIS
SMPTE_BYPASS
RSET
CD_VCC
CP_GND
LB_CONT
CP_CAP
LF
VCO_VCC
VCO_GND
VCO
LOCKED
RSV2
PCLK
CORE_GND
DETECT_TRS
CORE_VCC
DIN19
DIN18
IO_VCC
IO_GND
DIN17
DIN16
DIN15
DIN14
DIN13
DIN12
DIN11
DIN10
DIN9
DIN8
DIN7
DIN6
DIN5
DIN4
DIN3
DIN2
DIN1
DIN0
SDO_EN/DIS
CD_GND
SDO
RESET_TRST
JTAG_EN/DIS
CS_TMS
SDOUT_TDO
SDIN_TDI
SCLK_TCK
BLANK
+3.3V-GN
+1.8V
-5V
PS_HIZ_N
PS_RESET
PS_CSI
PS_SOUT
PS_SIN
PS_SCLK
PS_BLANK_N
001:15A
001:15E
001:15C
001:15D
CP12
CP13
CP14
Q1 2SC5012-T1
Q2 2SC5012-T1
Q3 2SC5012-T1
Q4 2SC5185-T1
Q5 2SC5185-T1
Q6 2SC5185-T1
Q7 2SC5185-T1
VR1
PAT/VR5
OUT_LEV
OUT 1
OUT 2
OUT 3
OUT4
J2
J3
J4
J5
J6
J7
J8
J9
PAT/VJS3379
VJP4131
L6
L7
L8
L9
L10
L11
L12
L13
3R3N
R57 4R7/J3
R58 4R7/J3

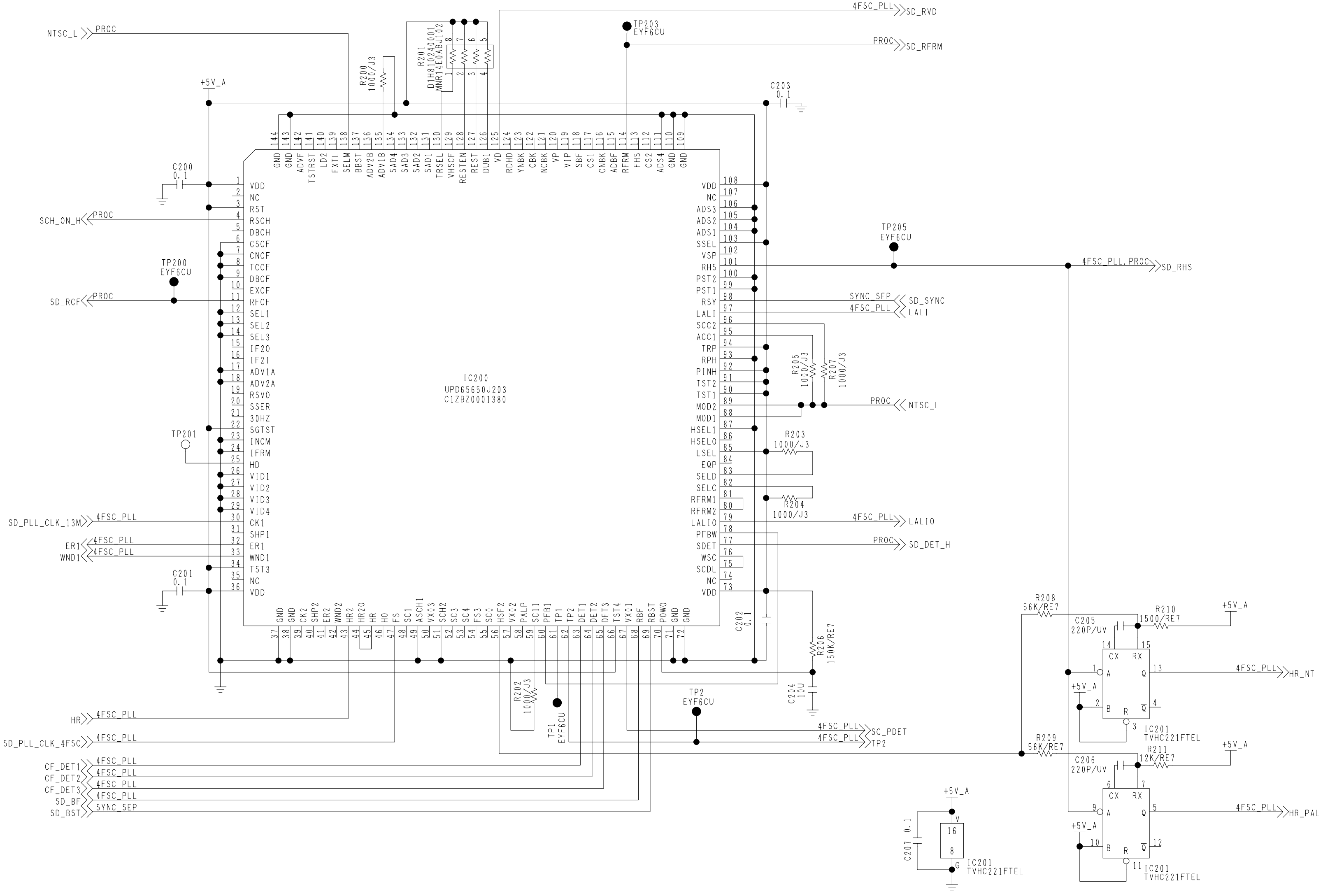
COMPONENT NAME	HD_SDI_TX(P/S,DRV)	02/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83632A	KR 3A0029(2/2)	
	SCM137	


P1
K1KBGOB00002
(VJP4064Q160)
EXT_REF
SDI_DEC_FS256
SDI_IN_FS64
SDI_IN_AUD_CH12
SDI_IN_AUD_CH56
SDI_IN_FS256
SDI_IN_FS
SDI_IN_AUD_CH34
SDI_IN_AUD_CH78
SDI_OUT_FS256
SDI_OUT_FS
SDI_OUT_AUD_CH34
SDI_OUT_AUD_CH78
SDI_OUT_FS64
SDI_OUT_AUD_CH12
SDI_OUT_AUD_CH56
SDI_CS_N
AV_WR_N
AV_RST_N
AV_RD_N
HD_REF_FRM
SD_REF_CF
SD_REF_CLK27
CHAR_DATA
CHAR_GATE
SDI_PB_HD_FRM
SDI_PB_CLK27
HD_REF_CLK74[1]
HD_REF_CLK74[0]
P3
K1KA08B00147
(VJP3125D008)
VCC
TDO
TDI
TRST
NC
TMS
GND
TCK
EPC_DATA
EPC_DCLK
EPC_OE
IC5
C1ZBZ0001555
(EPC2TC32)
IC8
C1ZBZ0001555
(EPC2TC32)
EPC_NCONFIG
EPC_NCS
BUF_RESET_L
+3.3V
P2
VJS4168B008
+5V
IC6
C0CBADE00010
(LT1129CS8-5)
+5.6V
+5V_A
IC2
XC62FP3302PR
+3.3V_SDI
IC3
XC62FP3302PR
+3.3V_A
L5
J0JKC0000007
(VLP0183)
L7
J0JKC0000007
L6
J0JKC0000007
-5.6V
IC7
C0DBEZG00015
(LT1175CS8-5)
-5V_A
L1
J0JKC0000007
+1.5V
L2
PAT/VLP0183
+1.2V
L3
PAT/VLP0183
-2V
TP10
TDO
TG1 EYF6CU
TG2 EYF6CU
TG3 EYF6CU
TG4 EYF6CU
TG5 EYF6CU
TG6 EYF6CU
BS_TMS
BS_TDI
BS_TCK
R11
D1H810140001
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14

COMPONENT NAME	CONNECTOR	1/8
CIRCUIT BOARD NO.		DRAWING NO.
VEP83634A		KR 3A0032(1/8)
		SCM125

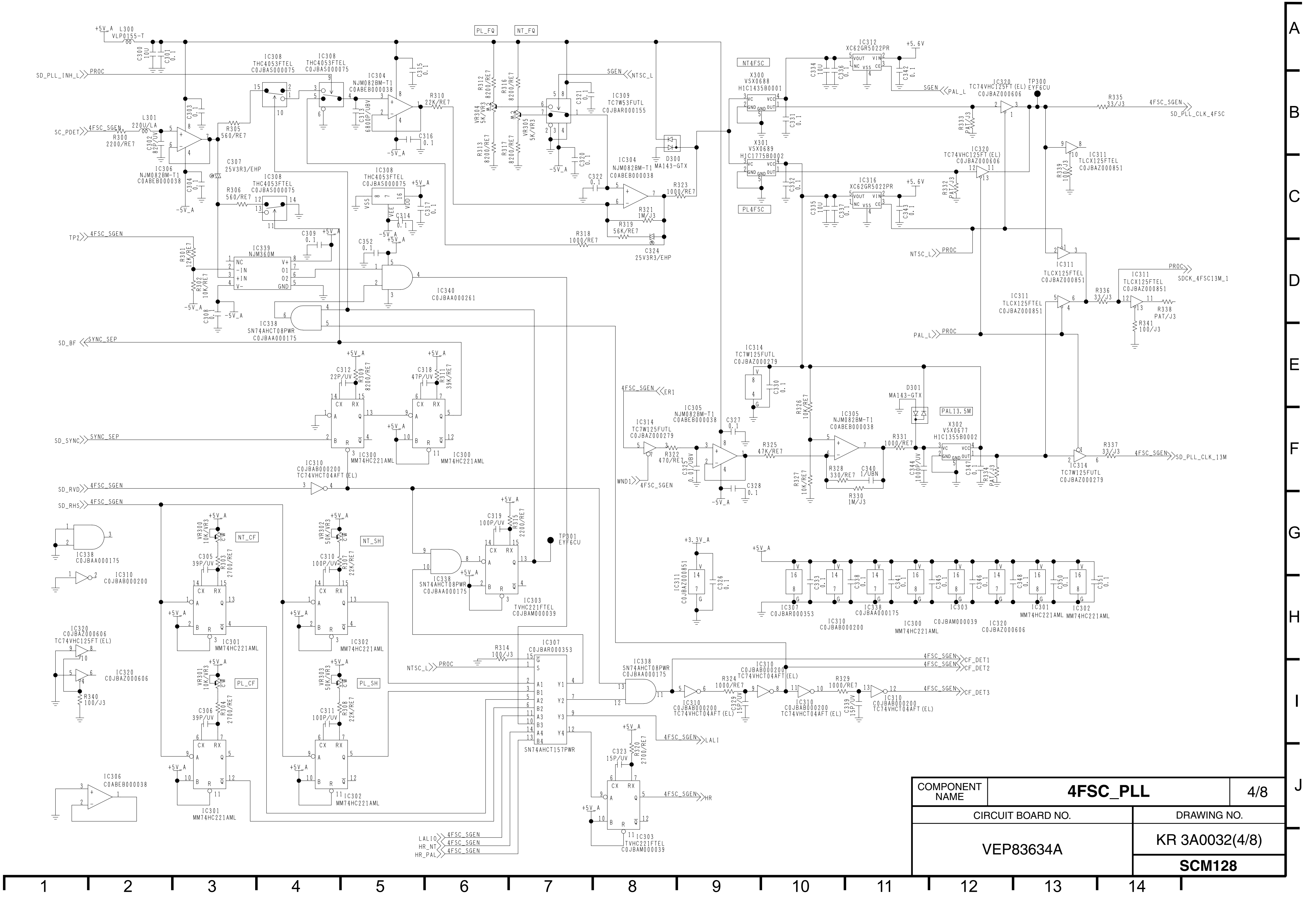

EXT_REF
CONNECTOR
C116 16V47 ECA1CEN4701
R114 100/RE7
R119 1000/RE7
330/RE7 R120
IC109 C0ABGB000013
C129 0.1
+5V_A
-5V_A
C126 0.1
C132 2P/UV
R123 1000/RE7
R125 820K/J3
TP110
C137 0.033/UBV
IC112 GS4981-CTA C1AB00000372
VOUT VIN VSYNC_OUT GND VCC H RSET BP
C144 0.1
R135 33/J3
C165 0.1
C146 0.1
PROC
REF_HD59_L
R126 100/RE7
R132 390K/RE7
R133 220K/RE7
IC116 TC7W53FUTL
R147 100/J3
R101 PAT/RE7
2SD0601ALL Q100
R102 22K/RE7
R148 0/J3
R103 2200/RE7
R104 PAT/RE7
R105 100/J3
2SA1532OXL Q101
R106 2200/RE7
L100 39U/LA
L101 68U/LA
C101 33P/UV
C102 33P/UV
NTSC_L
SGEN
IC100 TC7W53FUTL
C105 0.1
C103 0.1
R107 1000/RE7
R109 2200/RE7
2SD0601ALL Q102
R110 2200/RE7
R111 6800/RE7
2SD0601ALL Q103
R113 2200/RE7
C109 0.1
R116 100K/RE7
R117 180K/RE7
R115 8200/RE7
C110 0.1
R118 8200/RE7
IC103 NJM360M
NC -IN +IN V- V+ O1 O2 GND
C111 0.1
IC105 C0JBCA000066 SN74AHCT1G08DCKR
C113 0.1
IC107 C0JBAA000175 SN74AHCT08PWR
C148 0.1
R139 22K/RE7
IC106 TVHC123FTEL C0JBAM000045
PROC
SD_BW_L
4FSC_SGEN
SD_BST
4FSC_PLL
SD_BF
TP100 EYF6CU
R108 0/J3
PROC, 4FSC_SGEN, 4FSC_PLL
SD_SYNC
IC101 C1AB00000234
S_OUT VBS_IN VD GND VCC O/E RSET /BP
C104 0.1
C106 0.1
C107 0.1
R112 220K/RE7
C153 6800P/UBV
R144 10K/RE7
TP114 EYF6CU
PROC
HD59_DET_H
IC106 TVHC123FTEL
C150 330P/UV
R141 2700/RE7
IC102 TVHC221FTEL C0JBAM000039
C152 220P/UV
R143 1000/RE7
IC102 TVHC221FTEL C0JBAM000039
IC114 TC7W53FUTL C0JBAR000155
C156 0.1
C162 0.1
IC108 NJM082BM-T1 C0ABEB000038
C159 0.1
C154 0.1
C160 0.1
R146 100/J3
IC119 NJM360M
C131 0.1
C112 0.1
IC107 C0JBAA000175 SN74AHCT08PWR
C147 150P/UV
R138 6800/RE7
TP113 EYF6CU
SGEN
HD59_H_N
IC104 TVHC221FTEL C0JBAM000039
IC108 NJM082BM-T1 C0ABEB000038
IC107 C0JBAA000175 SN74AHCT08PWR
IC107 C0JBAA000175
C108 0.1
C140 6800P/UBV
R137 15K/RE7
IC104 TVHC221FTEL C0JBAM000039
IC107 C0JBAA000175 SN74AHCT08PWR
PROC
HD59_V_N
C166 0.1
C120 0.1
C127 0.1
IC106 TVHC123FTEL
IC104 C0JBAM000039
IC102 C0JBAM000039
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	SYNC_SEP		2/8
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83634A		KR 3A0032(2/8) SCM126	



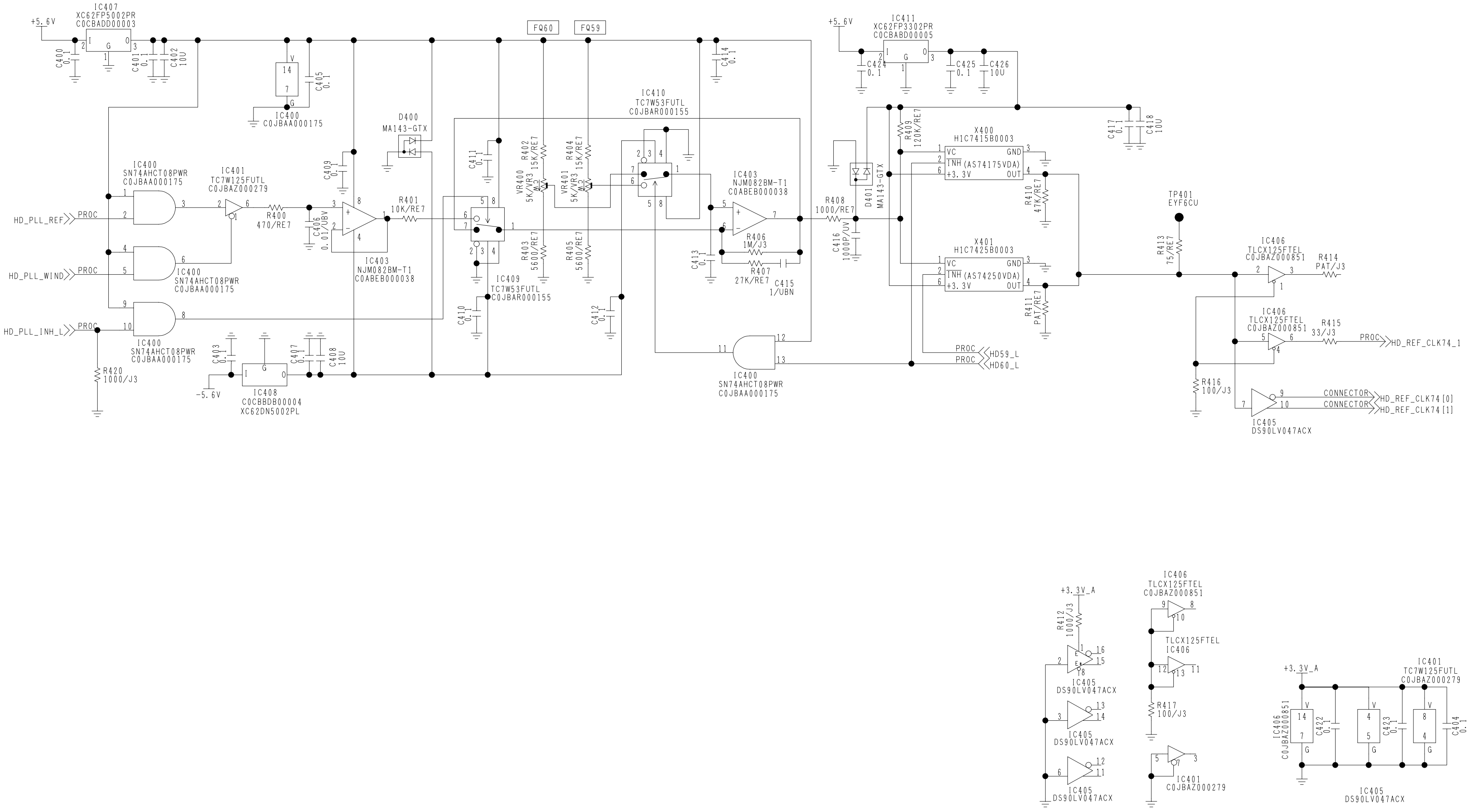
NTSC_L
PROC
4FSC_PLL
SD_RVD
TP203
EYF6CU
SD_RFRM
R201
DIH8102400001
MNR14E0ABJ102
R200
1000/J3
+5V_A
C203
0.1
C200
0.1
SCH_ON_H
TP200
EYF6CU
SD_RCF
TP201
SD_PLL_CLK_13M
ERI
WNDI
C201
0.1
IC200
UPD65650J203
C1ZBZ0001380
TP205
EYF6CU
4FSC_PLL, PROC
SD_RHS
SYNC_SEP
SD_SYNC
LALI
R205
1000/J3
R207
1000/J3
R203
1000/J3
R204
1000/J3
LALIO
SD_DET_H
C202
0.1
R206
150K/RE7
C204
10U
R202
1000/J3
TP1
EYF6CU
TP2
EYF6CU
SC_PDET
HR
SD_PLL_CLK_4FSC
CF_DET1
CF_DET2
CF_DET3
SD_BF
SD_BST
R208
56K/RE7
C205
220P/UV
R210
1500/RE7
HR_NT
IC201
TVHC221FTEL
R209
56K/RE7
C206
220P/UV
R211
12K/RE7
HR_PAL
C207 0.1

COMPONENT NAME	**4FSC_SGEN**	3/8
CIRCUIT BOARD NO.		DRAWING NO.
VEP83634A		KR 3A0032(3/8)
		SCM127

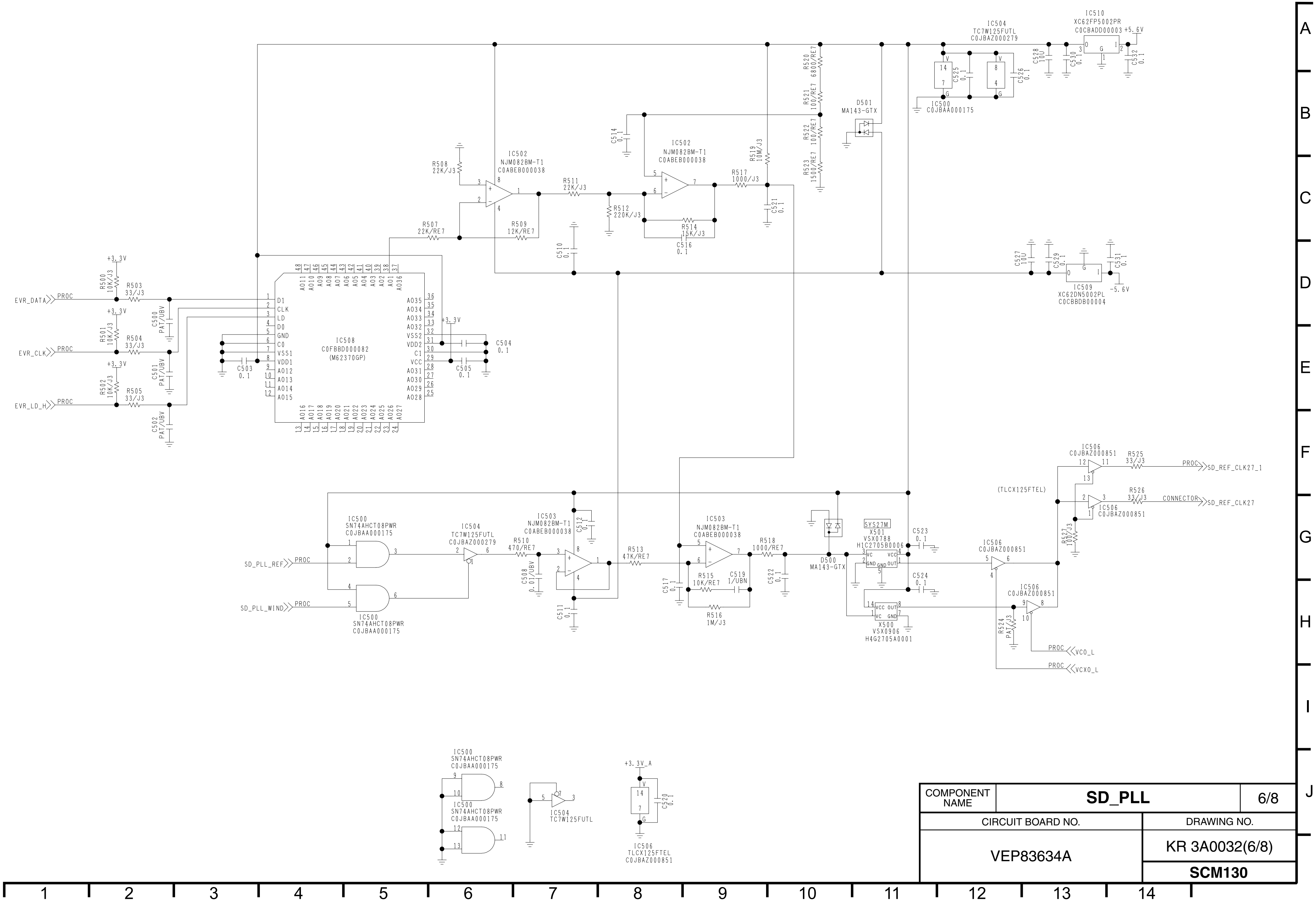


+5V_A
L300 VLP0155-T
C300 10U
C301 0.1
SD_PLL_INH_L
PROC
SC_PDET
4FSC_SGEN
R300 2200/RE7
L301 220U/LA
C302 82P/UV
C303 0.1
C304 0.1
IC306 NJM082BM-T1 C0ABEB000038
-5V_A
R305 560/RE7
C307 25V3R3/EHP
IC308 THC4053FTEL C0JBAS000075
R306 560/RE7
IC304 NJM082BM-T1 C0ABEB000038
C313 6800P/UBV
C315 0.1
C316 0.1
R310 22K/RE7
PL_FQ
NT_FQ
R312 8200/RE7
R316 8200/RE7
VR304 5K/VR3
VR305 5K/VR3
R313 8200/RE7
R317 8200/RE7
SGEN
NTSC_L
IC309 TC7W53FUTL C0JBAR000155
C321 0.1
C320 0.1
C322 0.1
D300 MA143-GTX
R323 1000/RE7
R321 1M/J3
R319 56K/RE7
R318 1000/RE7
C324 25V3R3/EHP
C317 0.1
C314 0.1
C309 0.1
C352 0.1
TP2
R301 12K/RE7
R302 10K/RE7
IC339 NJM360M
NC -IN +IN V- V+ O1 O2 GND
C308 0.1
IC340 C0JBAA000261
IC338 SN74AHCT08PWR C0JBAA000175
SD_BF
SYNC_SEP
SD_SYNC
C312 22P/UV
R309 8200/RE7
C318 47P/UV
R311 39K/RE7
IC300 MM74HC221AML
CX RX A B R Q
SD_RVD
SD_RHS
IC310 C0JBAB000200 TC74VHCT04AFT (EL)
C319 100P/UV
R315 2200/RE7
TP301 EYF6CU
IC303 TVHC221FTEL C0JBAM000039
VR300 10K/VR3
VR302 50K/VR3
VR301 10K/VR3
VR303 50K/VR3
NT_CF
NT_SH
PL_CF
PL_SH
C305 39P/UV
R303 2700/RE7
C310 100P/UV
R307 22K/RE7
C306 39P/UV
R304 2700/RE7
C311 100P/UV
R308 22K/RE7
IC301 MM74HC221AML
IC302 MM74HC221AML
IC320 C0JBAZ000606 TC74VHC125FT (EL)
R340 100/J3
IC306 C0ABEB000038
R314 100/J3
IC307 C0JBAR000353
SN74AHCT157PWR
G S A1 B1 A2 B2 A3 B3 A4 B4 Y1 Y2 Y3 Y4
LALI
HR_NT
HR_PAL
C323 15P/UV
R320 2700/RE7
HR
CF_DET1
CF_DET2
CF_DET3
R324 1000/RE7
C329 15P/UV
R329 1000/RE7
C339 15P/UV
NT4FSC
PL4FSC
X300 VSX0688 H1C1435B0001
X301 VSX0689 H1C1775B0002
C331 0.1
C332 0.1
IC312 XC62GR5022PR
IC316 XC62GR5022PR
+5.6V
VOUT VIN NC VSS CE
C334 10U
C336 0.1
C342 0.1
C335 10U
C337 0.1
C343 0.1
PAL_L
IC320 TC74VHC125FT (EL) C0JBAZ000606
TP300 EYF6CU
R335 33/J3
SD_PLL_CLK_4FSC
R333 PAT/J3
R332 PAT/J3
IC311 TLCX125FTEL C0JBAZ000851
R339 100/J3
R336 33/J3
R338 PAT/J3
R341 100/J3
SDCK_4FSC13M_1
IC314 TC7W125FUTL C0JBAZ000279
C330 0.1
ER1
WND1
R322 470/RE7
C325 0.01/UBV
IC305 NJM082BM-T1 C0ABEB000038
C327 0.1
C328 0.1
R325 47K/RE7
R326 10K/RE7
R327 10K/RE7
D301 MA143-GTX
PAL13.5M
X302 VSX0677 H1C1355B0002
R331 1000/RE7
R328 330/RE7
C340 1/UBN
R330 1M/J3
C344 100P/UV
C347 0.1
R334 PAT/J3
R337 33/J3
SD_PLL_CLK_13M
+3.3V_A
C326 0.1
C333 0.1
C338 0.1
C341 0.1
C345 0.1
C346 0.1
C348 0.1
C350 0.1
C351 0.1
IC307 C0JBAR000353
IC310 C0JBAB000200
IC338 C0JBAA000175
IC300 MM74HC221AML
IC303 C0JBAM000039
IC320 C0JBAZ000606
IC301 MM74HC221AML
IC302 MM74HC221AML
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

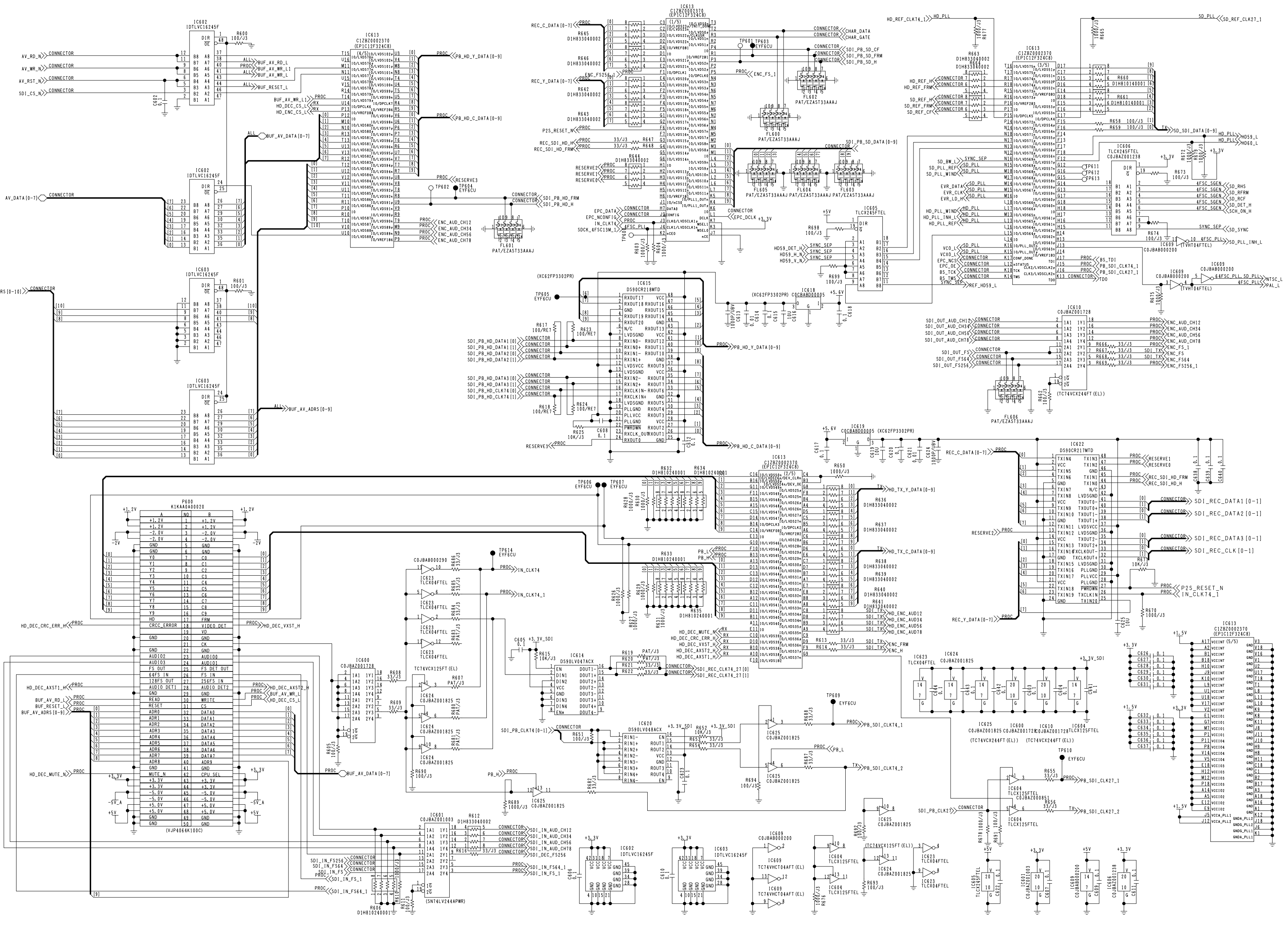
COMPONENT NAME	4FSC_PLL	4/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83634A	KR 3A0032(4/8)	
	SCM128	


IC407
XC62FP5002PR
C0CBADD00003
+5.6V
C400 0.1
C401 0.1
C402 10U
IC400
C0JBAA000175
C405 0.1
D400
MA143-GTX
FQ60
FQ59
C414 0.1
IC410
TC7W53FUTL
C0JBAR000155
IC400
SN74AHCT08PWR
C0JBAA000175
IC401
TC7W125FUTL
C0JBAZ000279
C409 0.1
C411 0.1
R402 15K/RE7
R404 15K/RE7
VR400 5K/VR3
VR401 5K/VR3
IC403
NJM082BM-T1
C0ABEB000038
HD_PLL_REF
PROC
R400
470/RE7
C406
0.01/UBV
R401
10K/RE7
R406
1M/J3
R407
27K/RE7
C415
1/UBN
C413 0.1
R403 5600/RE7
R405 5600/RE7
IC403
NJM082BM-T1
C0ABEB000038
HD_PLL_WIND
PROC
IC400
SN74AHCT08PWR
C0JBAA000175
IC409
TC7W53FUTL
C0JBAR000155
C410 0.1
C412 0.1
HD_PLL_INH_L
PROC
IC400
SN74AHCT08PWR
C0JBAA000175
R420
1000/J3
C403 0.1
C407 0.1
C408 10U
IC408
C0CBBD000004
XC62DN5002PL
-5.6V
IC400
SN74AHCT08PWR
C0JBAA000175
+5.6V
IC411
XC62FP3302PR
C0CBABD00005
C424 0.1
C425 0.1
C426 10U
C417 0.1
C418 10U
R409 120K/RE7
X400
H1C7415B0003
(AS74175VDA)
VC
GND
TNH
+3.3V
OUT
R410 47K/RE7
D401
MA143-GTX
R408
1000/RE7
C416
1000P/UV
X401
H1C7425B0003
(AS74250VDA)
R411 PAT/RE7
TP401
EYF6CU
R413 75/RE7
IC406
TLCX125FTEL
C0JBAZ000851
R414
PAT/J3
IC406
TLCX125FTEL
C0JBAZ000851
R415
33/J3
PROC
HD_REF_CLK74_1
PROC
HD59_L
PROC
HD60_L
R416
100/J3
CONNECTOR
HD_REF_CLK74[0]
CONNECTOR
HD_REF_CLK74[1]
IC405
DS90LV047ACX
+3.3V_A
R412
1000/J3
IC405
DS90LV047ACX
IC405
DS90LV047ACX
IC405
DS90LV047ACX
IC406
TLCX125FTEL
C0JBAZ000851
TLCX125FTEL
IC406
R417
100/J3
IC401
C0JBAZ000279
+3.3V_A
IC406
C0JBAZ000851
C422 0.1
C423 0.1
C404 0.1
IC401
TC7W125FUTL
C0JBAZ000279
IC405
DS90LV047ACX

COMPONENT NAME	**HD_PLL**	5/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83634A	KR 3A0032(5/8)	
	SCM129	


IC510
XC62FP5002PR
C0CBADD00003
+5.6V
IC504
TC7W125FUTL
C0JBAZ000279
C525 0.1
C526 0.1
C528 10U
C530 0.1
C532 0.1
IC500
C0JBAA000175
D501
MA143-GTX
R520 6800/RE7
R521 100/RE7
R522 100/RE7
R523 1500/RE7
R519 10M/J3
C514 0.1
IC502
NJM082BM-T1
C0ABEB000038
R508 22K/J3
R511 22K/J3
R512 220K/J3
R514 15K/J3
C516 0.1
R517 1000/J3
C521 0.1
R507 22K/RE7
R509 12K/RE7
C510 0.1
C527 10U
C529 0.1
C531 0.1
IC509
XC62DN5002PL
C0CBBD00004
-5.6V
+3.3V
R500 10K/J3
R503 33/J3
EVR_DATA
PROC
R501 10K/J3
R504 33/J3
EVR_CLK
R502 10K/J3
R505 33/J3
EVR_LD_H
C500 PAT/UBV
C501 PAT/UBV
C502 PAT/UBV
IC508
C0FBBD000082
(M62370GP)
D1
CLK
LD
D0
GND
C0
VSS1
VDD1
AO12
AO13
AO14
AO15
AO11 AO10 AO9 AO8 AO7 AO6 AO5 AO4 AO3 AO2 AO1 AO36
AO35 AO34 AO33 AO32 VSS2 VDD2 C1 VCC AO31 AO30 AO29 AO28
AO16 AO17 AO18 AO19 AO20 AO21 AO22 AO23 AO24 AO25 AO26 AO27
C503 0.1
C504 0.1
C505 0.1
IC506
C0JBAZ000851
R525 33/J3
SD_REF_CLK27_1
R526 33/J3
CONNECTOR
SD_REF_CLK27
(TLCX125FTEL)
R527 100/J3
IC500
SN74AHCT08PWR
C0JBAA000175
SD_PLL_REF
SD_PLL_WIND
IC504
TC7W125FUTL
C0JBAZ000279
R510 470/RE7
C508 0.01/UBV
IC503
NJM082BM-T1
C0ABEB000038
C512 0.1
C511 0.1
R513 47K/RE7
C517 0.1
R515 10K/RE7
C519 1/UBN
R516 1M/J3
R518 1000/RE7
C522 0.1
D500
MA143-GTX
SYS27M
X501
VSX0788
H1C2705B0006
C523 0.1
C524 0.1
X500
VSX0906
H4G2705A0001
R524 PAT/J3
VCO_L
VCXO_L
IC500
SN74AHCT08PWR
C0JBAA000175
IC504
TC7W125FUTL
+3.3V_A
C520 0.1
IC506
TLCX125FTEL
C0JBAZ000851
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	SD_PLL	6/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83634A	KR 3A0032(6/8)	
	SCM130	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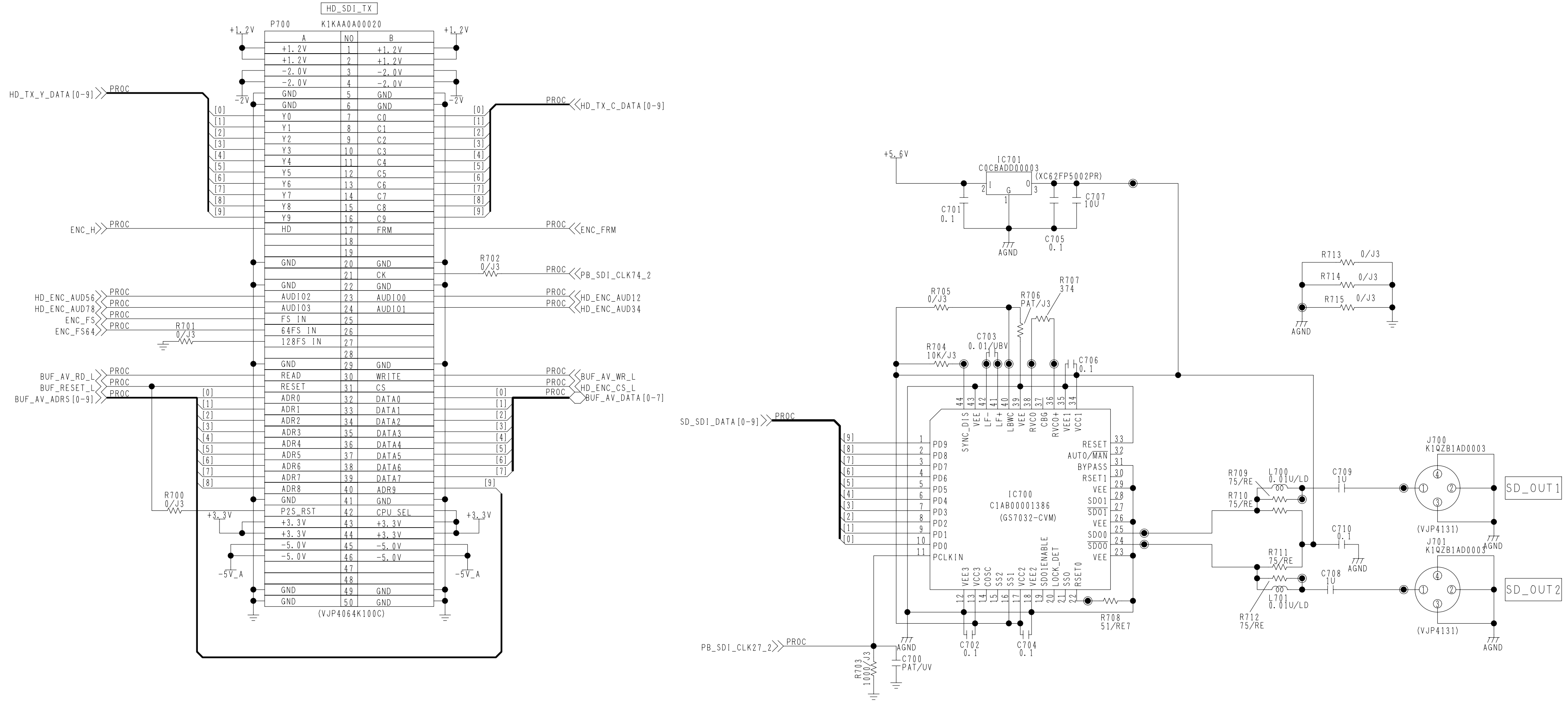
IC602 IDTLVC16245F
IC603 IDTLVC16245F
IC613 C1ZBZ0002370 (EP1C12F324C8)
IC615 DS90CR218MTD
IC622 DS90CR217MTD
IC605 TLCX245FTEL
IC606 TLCX245FTEL
IC610 C0JBAZ001728
IC600 C0JBAZ001728
IC601 C0JBAZ001003
IC614 DS90LV047ACX
IC620 DS90LV048ACX
IC623 TLCX04FTEL
IC624 C0JBAZ001825
IC625 C0JBAZ001825
IC604 TLCX125FTEL
IC609 C0JBAB000200
IC619 C0CBADD00005
IC618 C0CBADD00005
P600 K1KA50A00020
FL601 PAT/EZAST33AAAJ
FL602 PAT/EZAST33AAAJ
FL603 PAT/EZAST33AAAJ
FL604 PAT/EZAST33AAAJ
FL605 PAT/EZAST33AAAJ
FL606 PAT/EZAST33AAAJ
FL600 PAT/EZAST33AAAJ
AV_RD_N
AV_WR_N
AV_RST_N
SDI_CS_N
AV_DATA[0-7]
_ADRS[0-10]
BUF_AV_RD_L
BUF_AV_WR_L
BUF_RESET_L
BUF_AV_DATA[0-7]
BUF_AV_ADRS[0-9]
PB_HD_Y_DATA[0-9]
PB_HD_C_DATA[0-9]
RESERVE3
ENC_AUD_CH12
ENC_AUD_CH34
ENC_AUD_CH56
ENC_AUD_CH78
REC_C_DATA[0-7]
REC_Y_DATA[0-7]
P2S_RESET_N
REC_SDI_HD_H
REC_SDI_HD_FRM
CHAR_DATA
CHAR_GATE
SDI_PB_SD_CF
SDI_PB_SD_FRM
SDI_PB_SD_H
SDI_PB_SD_DATA[0-9]
ENC_FS_1
EPC_DCLK
HD_REF_CLK74_1
SD_REF_CLK27_1
SD_SDI_DATA[0-9]
HD59_L
HD60_L
SD_RHS
SD_RFRM
SD_RCF
SD_DET_H
SCH_ON_H
SD_SYNC
SD_PLL_INH_L
NTSC_L
PAL_L
HD_TX_Y_DATA[0-9]
HD_TX_C_DATA[0-9]
SDI_REC_DATA1[0-1]
SDI_REC_DATA2[0-1]
SDI_REC_DATA3[0-1]
SDI_REC_CLK[0-1]
P2S_RESET_N
IN_CLK74_1
IN_CLK74
SDI_REC_CLK74_27[0]
SDI_REC_CLK74_27[1]
PB_SDI_CLK74_1
PB_SDI_CLK74_2
PB_SDI_CLK27_1
PB_SDI_CLK27_2
SDI_IN_AUD_CH12
SDI_IN_AUD_CH34
SDI_IN_AUD_CH56
SDI_IN_AUD_CH78
SDI_IN_FS64_1
SDI_IN_FS_1
HD_DEC_CRC_ERR_H
HD_DEC_VXST_H
HD_DEC_AXST1_H
HD_DEC_AXST2_H
HD_DEC_MUTE_N
EPC_DATA
EPC_NCONFIG
EPC_NCS
ENC_FRM
ENC_H

COMPONENT NAME	HD_SDI_RX&PROC	7/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83634A	KR 3A0032(7/8)	
	SCM131	


HD_SDI_TX
P700
K1KAA0A00020
(VJP4064K100C)
HD_TX_Y_DATA[0-9]
HD_TX_C_DATA[0-9]
ENC_H
ENC_FRM
PB_SDI_CLK74_2
HD_ENC_AUD56
HD_ENC_AUD78
HD_ENC_AUD12
HD_ENC_AUD34
ENC_FS
ENC_FS64
BUF_AV_RD_L
BUF_RESET_L
BUF_AV_ADRS[0-9]
BUF_AV_WR_L
HD_ENC_CS_L
BUF_AV_DATA[0-7]
PROC
R700 0/J3
R701 0/J3
R702 0/J3
+1.2V
-2V
+3.3V
-5V_A
SD_SDI_DATA[0-9]
PB_SDI_CLK27_2
R703 1000/J3
C700 PAT/UV
+5.6V
IC701
C0CBADD00003
(XC62FP5002PR)
C701 0.1
C705 0.1
C707 10U
AGND
R704 10K/J3
R705 0/J3
R706 PAT/J3
R707 374
C703 0.01/UBV
C706 0.1
IC700
C1AB00001386
(GS7032-CVM)
C702 0.1
C704 0.1
R708 51/RE7
R709 75/RE
R710 75/RE
R711 75/RE
R712 75/RE
L700 0.01U/LD
L701 0.01U/LD
C708 1U
C709 1U
C710 0.1
R713 0/J3
R714 0/J3
R715 0/J3
J700 K1QZB1AD0003
J701 K1QZB1AD0003
(VJP4131)
SD_OUT1
SD_OUT2
A
B
C
D
E
F
G
H
I
J
1
2
3
4
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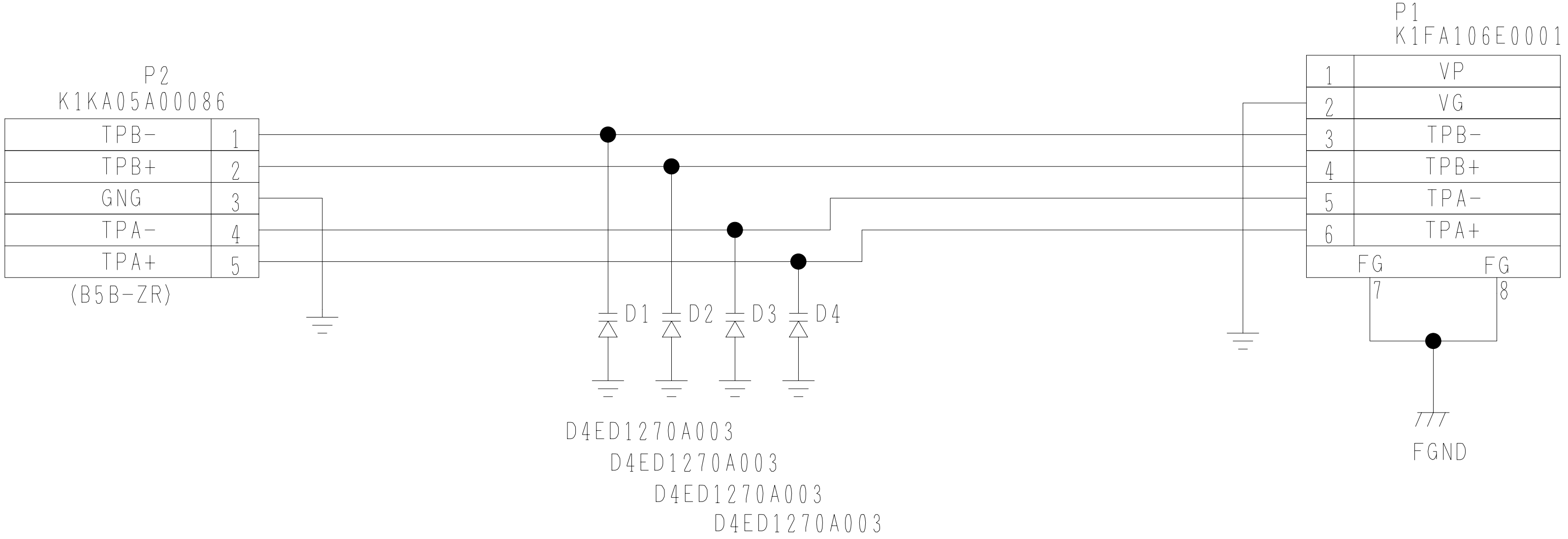
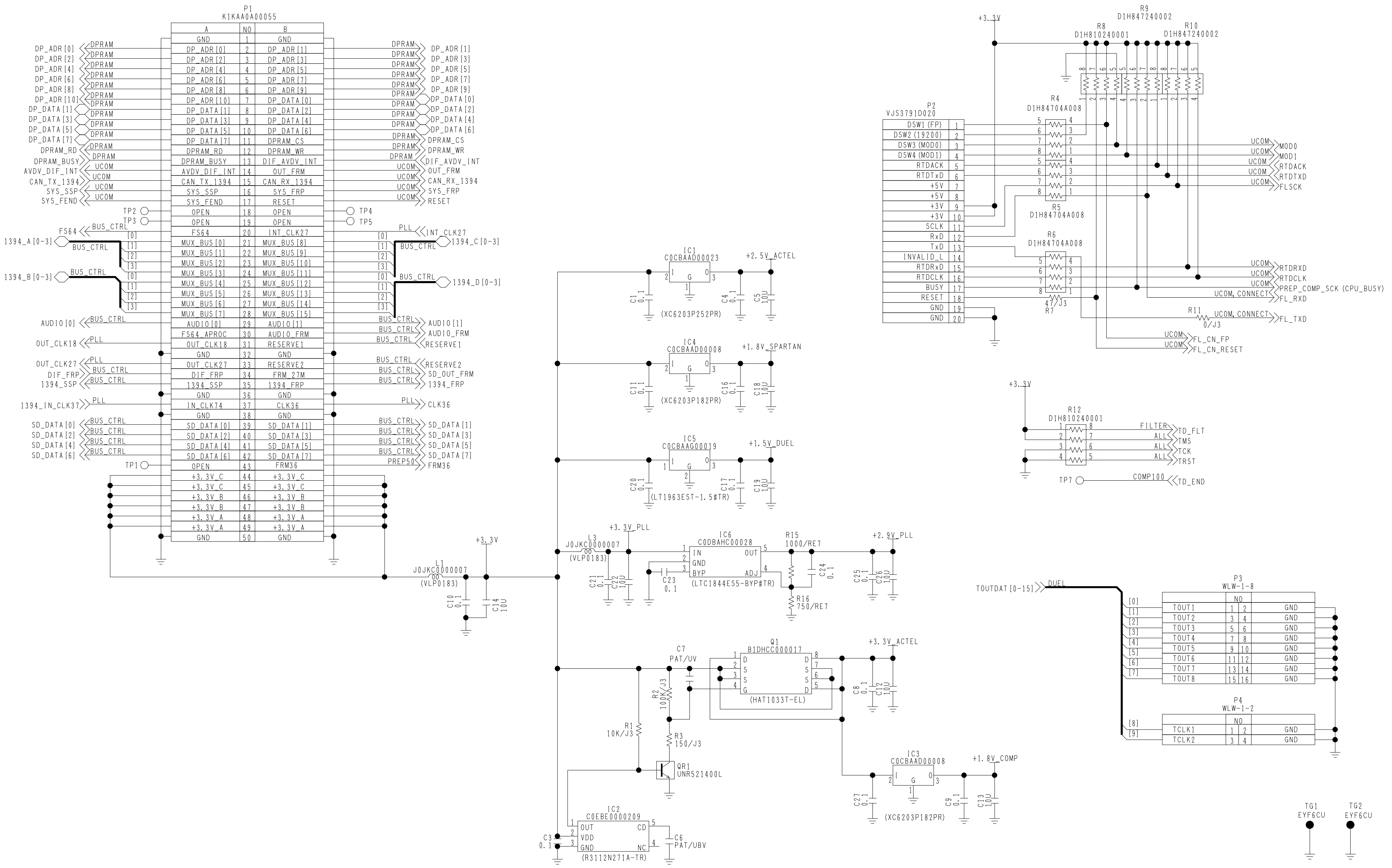
COMPONENT NAME	SDI_TX	8/8
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83634A	KR 3A0032(8/8) **SCM132**	


P2
K1KA05A00086
TPB- 1
TPB+ 2
GNG 3
TPA- 4
TPA+ 5
(B5B-ZR)
D1
D2
D3
D4
D4ED1270A003
D4ED1270A003
D4ED1270A003
D4ED1270A003
P1
K1FA106E0001
1 VP
2 VG
3 TPB-
4 TPB+
5 TPA-
6 TPA+
FG 7
FG 8
FGND

COMPONENT NAME	1394_JACK	1/1
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83644A	KR 3A0148(1/1) **SCM117**	


P1
K1KAA0A00055
A
NO
B
GND
DP_ADR[0]
DP_ADR[1]
DP_ADR[2]
DP_ADR[3]
DP_ADR[4]
DP_ADR[5]
DP_ADR[6]
DP_ADR[7]
DP_ADR[8]
DP_ADR[9]
DP_ADR[10]
DP_DATA[0]
DP_DATA[1]
DP_DATA[2]
DP_DATA[3]
DP_DATA[4]
DP_DATA[5]
DP_DATA[6]
DP_DATA[7]
DPRAM_CS
DPRAM_RD
DPRAM_WR
DPRAM_BUSY
DIF_AVDV_INT
AVDV_DIF_INT
OUT_FRM
CAN_TX_1394
CAN_RX_1394
SYS_SSP
SYS_FRP
SYS_FEND
RESET
OPEN
TP1
TP2
TP3
TP4
TP5
FS64
INT_CLK27
MUX_BUS[0]
MUX_BUS[15]
1394_A[0-3]
1394_B[0-3]
1394_C[0-3]
1394_D[0-3]
BUS_CTRL
DPRAM
UCOM
PLL
AUDIO[0]
AUDIO[1]
FS64_APROC
AUDIO_FRM
OUT_CLK18
RESERVE1
OUT_CLK27
RESERVE2
DIF_FRP
FRM_27M
SD_OUT_FRM
1394_SSP
1394_FRP
IN_CLK74
1394_IN_CLK37
CLK36
SD_DATA[0]
SD_DATA[1]
SD_DATA[2]
SD_DATA[3]
SD_DATA[4]
SD_DATA[5]
SD_DATA[6]
SD_DATA[7]
FRM36
PREP50
+3.3V_C
+3.3V_B
+3.3V_A
L1
J0JKC0000007
(VLP0183)
C10 0.1
C14 10U
+3.3V
IC1
C0CBAAD00023
+2.5V_ACTEL
C1 0.1
C4 0.1
C5 10U
(XC6203P252PR)
IC4
C0CBAAD00008
+1.8V_SPARTAN
C11 0.1
C16 0.1
C18 10U
(XC6203P182PR)
IC5
C0CBAAG00019
+1.5V_DUEL
C20 0.1
C17 0.1
C19 10U
(LT1963EST-1.5#TR)
+3.3V_PLL
L3
J0JKC0000007
(VLP0183)
IC6
C0DBAHC00028
IN
OUT
GND
BYP
ADJ
(LTC1844ES5-BYP#TR)
R15
1000/RE7
R16
750/RE7
C21 0.1
C22 10U
C23 0.1
C24 0.1
+2.9V_PLL
C25 0.1
C26 10U
C7
PAT/UV
Q1
B1DHCC000017
(HAT1033T-EL)
+3.3V_ACTEL
C8 0.1
C12 10U
R2
100K/J3
R1
10K/J3
R3
150/J3
QR1
UNR521400L
IC3
C0CBAAD00008
+1.8V_COMP
C27 0.1
C9 0.1
C13 10U
(XC6203P182PR)
IC2
C0EBE0000209
VDD
CD
NC
C3 0.1
C6
PAT/UBV
(R3112N271A-TR)
R9
D1H847240002
R8
D1H810240001
R10
D1H847240002
P2
VJS3791D020
DSW1(FP)
DSW2(19200)
DSW3(MOD0)
DSW4(MOD1)
RTDACK
RTDTxD
+5V
+3V
SCLK
RxD
TxD
INVALID_L
RTDRxD
RTDCLK
BUSY
R4
D1H84704A008
R5
D1H84704A008
R6
D1H84704A008
R7
47/J3
R11
0/J3
MOD0
MOD1
FLSCK
UCOM, CONNECT
PREP_COMP_SCK (CPU_BUSY)
FL_RXD
FL_TXD
FL_CN_FP
FL_CN_RESET
R12
D1H810240001
FILTER
ALL
TD_FLT
TMS
TCK
TRST
TP7
COMP100
TD_END
TOUTDAT[0-15]
DUEL
P3
WLW-1-8
TOUT1
TOUT2
TOUT3
TOUT4
TOUT5
TOUT6
TOUT7
TOUT8
P4
WLW-1-2
TCLK1
TCLK2
TG1
EYF6CU
TG2
EYF6CU
A
B
C
D
E
F
G
H
I
J
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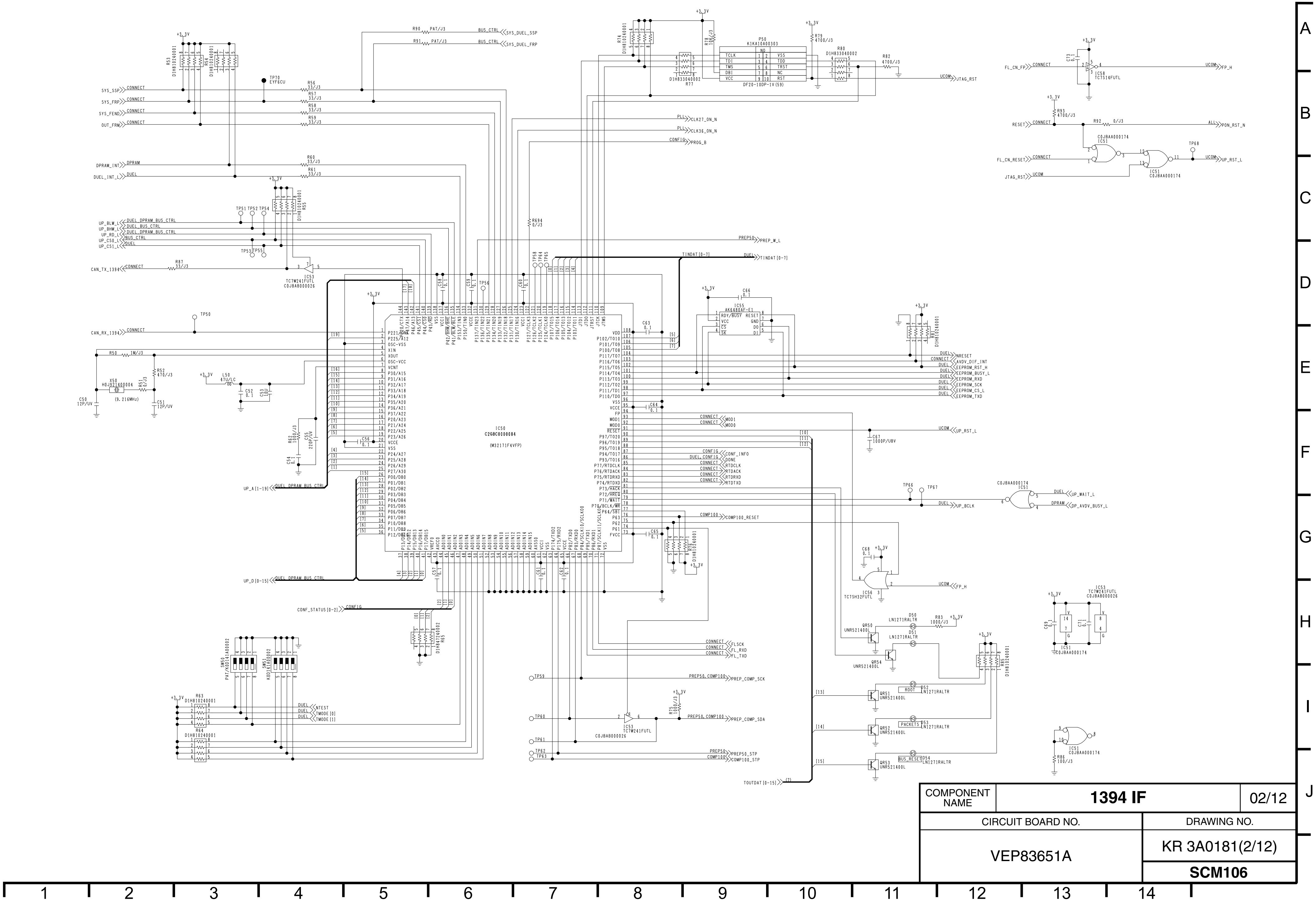
COMPONENT NAME	1394 IF		01/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83651A		KR 3A0181(1/12)	
		SCM105	


IC50
C2GBC0000084
(M32171F4VFP)
SYS_SSP
SYS_FRP
SYS_FEND
OUT_FRM
DPRAM_INT
DUEL_INT_L
UP_BLW_L
UP_BHW_L
UP_RD_L
UP_CS0_L
UP_CS1_L
CAN_TX_1394
CAN_RX_1394
UP_A[1-19]
UP_D[0-15]
CONF_STATUS[0-2]
BUS_CTRL
SYS_DUEL_SSP
SYS_DUEL_FRP
P50
K1KA10A00303
DF20-10DP-1V(59)
TCLK
TDI
TMS
DBI
VCC
VSS
TDO
TRST
NC
RST
JTAG_RST
FL_CN_FP
FP_H
IC58
TC7S14FUTL
RESET
PON_RST_N
FL_CN_RESET
UP_RST_L
IC51
C0JBAA000174
CLK27_ON_N
CLK36_ON_N
PROG_B
PREP_W_L
TINDAT[0-7]
IC55
AK6480AF-E1
NRESET
AVDV_DIF_INT
EEPROM_RST_H
EEPROM_BUSY_L
EEPROM_RXD
EEPROM_SCK
EEPROM_CS_L
EEPROM_TXD
MOD1
MOD0
CONF_INFO
DONE
RTDCLK
RTDACK
RTDRXD
RTDTXD
UP_WAIT_L
UP_BCLK
DP_AVDV_BUSY_L
COMP100_RESET
IC56
TC7SH32FUTL
FLSCK
FL_RXD
FL_TXD
PREP_COMP_SCK
PREP_COMP_SDA
PREP50_STP
COMP100_STP
TOUTDAT[0-15]
IC53
TC7W241FUTL
C0JBA8000026
NTEST
TMODE[0]
TMODE[1]
SW50
SW51
X50
(9.216MHz)
QR50
QR51
QR52
QR53
QR54
UNR521400L
LN1271RALTR
ROOT
PACKETS
BUS_RESET
A
B
C
D
E
F
G
H
I
J
1
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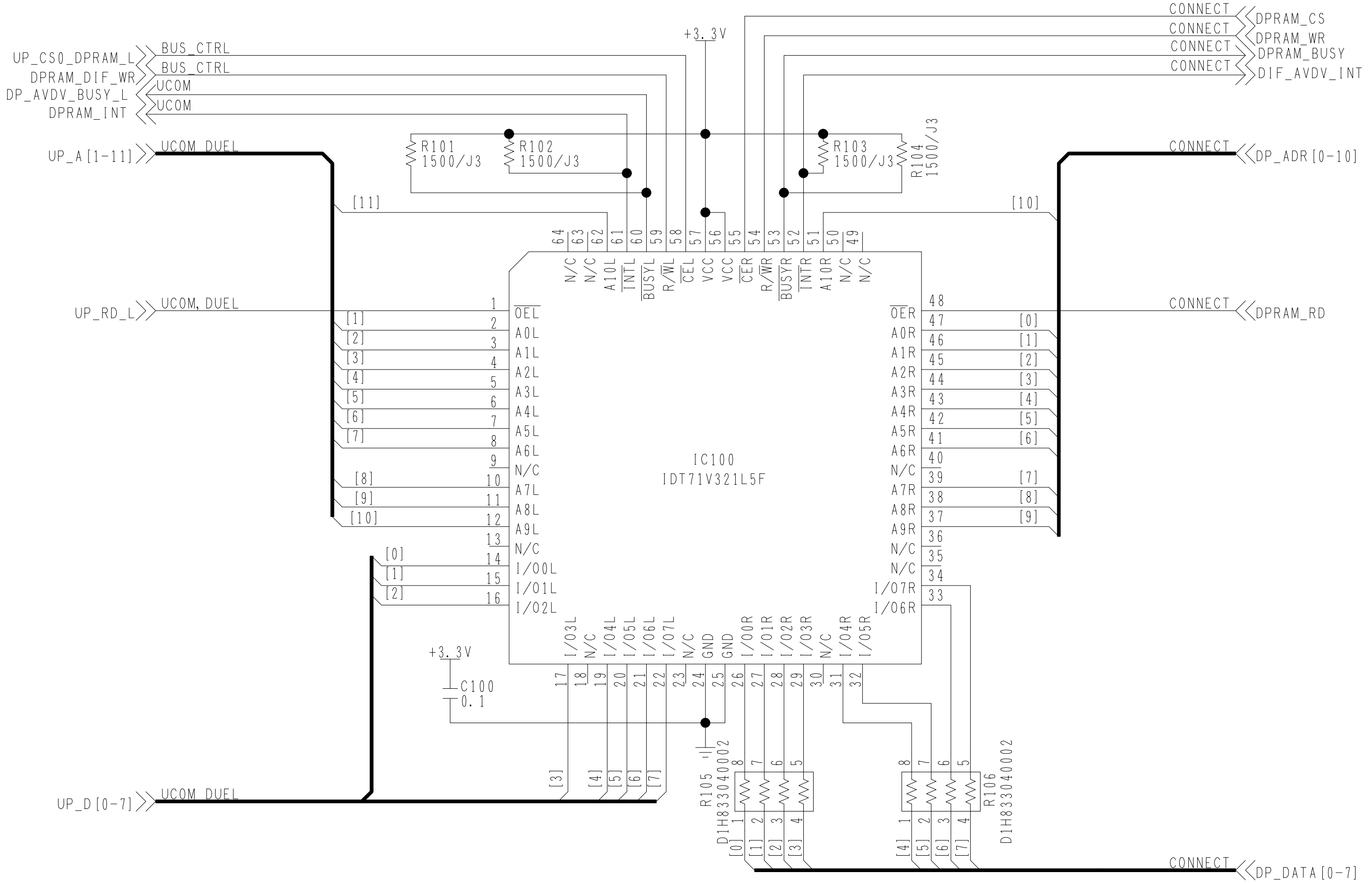
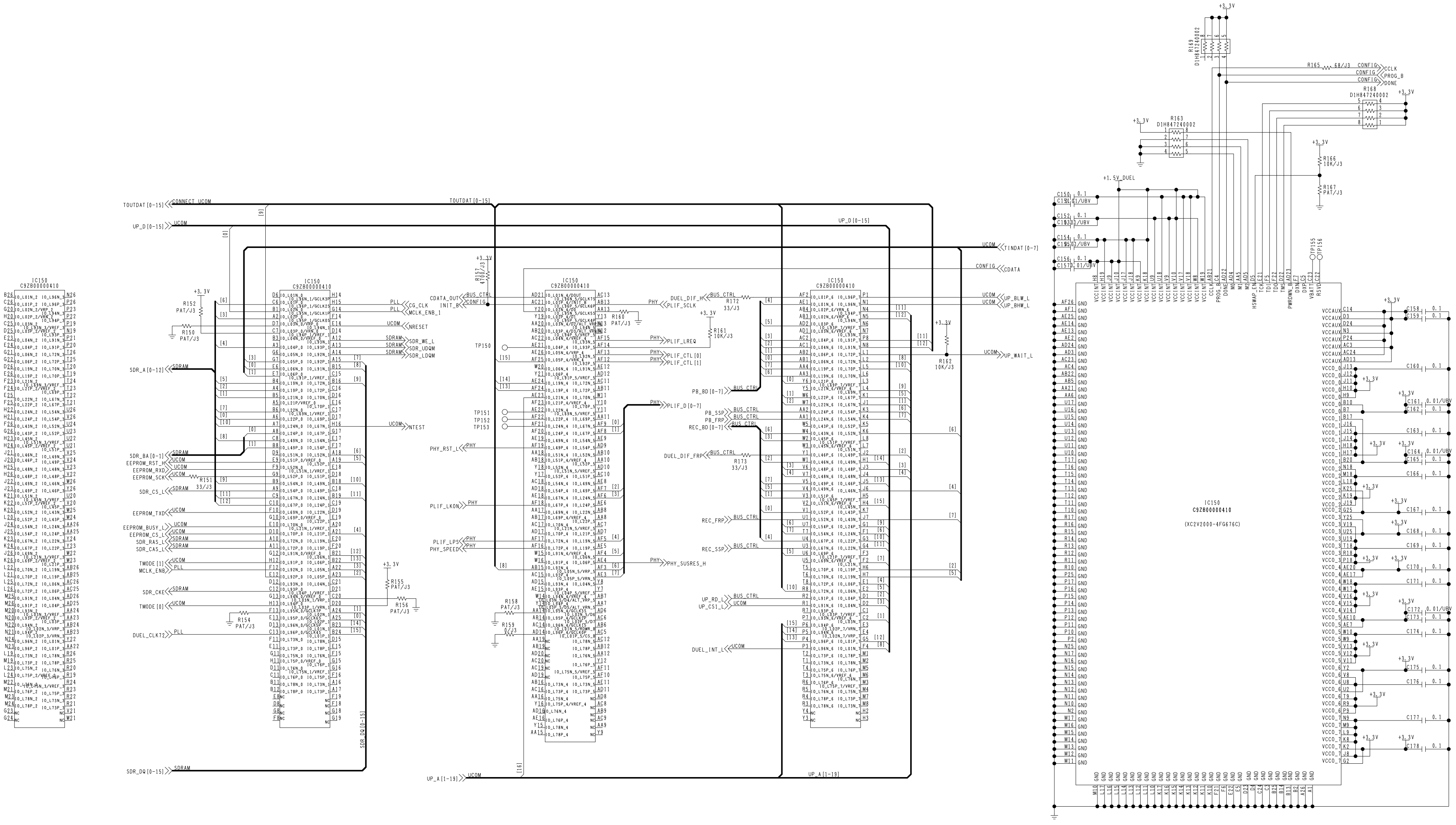
COMPONENT NAME	1394 IF	02/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83651A	KR 3A0181(2/12)	
	SCM106	


UP_CS0_DPRAM_L
DPRAM_DIF_WR
DP_AVDV_BUSY_L
DPRAM_INT
BUS_CTRL
BUS_CTRL
UCOM
UCOM
UP_A[1-11]
UCOM_DUEL
UP_RD_L
UCOM_DUEL
UP_D[0-7]
UCOM_DUEL
+3.3V
R101 1500/J3
R102 1500/J3
R103 1500/J3
R104 1500/J3
CONNECT DPRAM_CS
CONNECT DPRAM_WR
CONNECT DPRAM_BUSY
CONNECT DIF_AVDV_INT
CONNECT DP_ADR[0-10]
CONNECT DPRAM_RD
CONNECT DP_DATA[0-7]
IC100
IDT71V321L5F
N/C N/C A10L INTL BUSYL R/WL CEL VCC VCC CER R/WR BUSYR INTR A10R N/C N/C
64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49
OEL A0L A1L A2L A3L A4L A5L A6L N/C A7L A8L A9L N/C I/O0L I/O1L I/O2L
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
OER A0R A1R A2R A3R A4R A5R A6R N/C A7R A8R A9R N/C N/C I/O7R I/O6R
48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33
I/O3L N/C I/O4L I/O5L I/O6L I/O7L N/C GND GND I/O0R I/O1R I/O2R I/O3R N/C I/O4R I/O5R
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
[11] [10]
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9]
[0] [1] [2] [3] [4] [5] [6] [7]
+3.3V
C100 0.1
R105 D1H833040002
R106 D1H833040002
1 2 3 4 5 6 7 8

COMPONENT NAME	1394 IF		03/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83651A		KR 3A0181(3/12)	
		SCM107	


IC150
C9Z800000410
(XC2V2000-4FG676C)
TOUTDAT[0-15]
UP_D[0-15]
SDR_A[0-12]
SDR_BA[0-1]
EEPROM_RST_H
EEPROM_RXD
EEPROM_SCK
SDR_CS_L
EEPROM_TXD
EEPROM_BUSY_L
EEPROM_CS_L
SDR_RAS_L
SDR_CAS_L
TMODE[1]
MCLK_ENB
SDR_CKE
TMODE[0]
DUEL_CLK72
SDR_DQ[0-15]
UP_A[1-19]
CDATA_OUT
INIT_B
SDR_WE_L
SDR_UDQM
SDR_LDQM
NTEST
NRESET
CG_CLK
MCLK_ENB_1
PHY_RST_L
PLIF_LKON
PLIF_LPS
PHY_SPEED
TP150
TP151
TP152
TP153
DUEL_DIF_H
PLIF_SCLK
PLIF_LREQ
PLIF_CTL[0]
PLIF_CTL[1]
PLIF_D[0-7]
PHY_SUSRES_H
PB_BD[0-7]
PB_SSP
PB_FRP
REC_BD[0-7]
DUEL_DIF_FRP
REC_FRP
REC_SSP
UP_RD_L
UP_CS1_L
DUEL_INT_L
TINDAT[0-7]
CDATA
UP_BLW_L
UP_BHW_L
UP_WAIT_L
CCLK
PROG_B
DONE
+3.3V
+1.5V_DUEL
R150
R151
R152
R154
R155
R156
R157
R158
R159
R160
R161
R162
R163
R165
R166
R167
R168
R169
R172
R173
TP155
TP156
A
B
C
D
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F
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I
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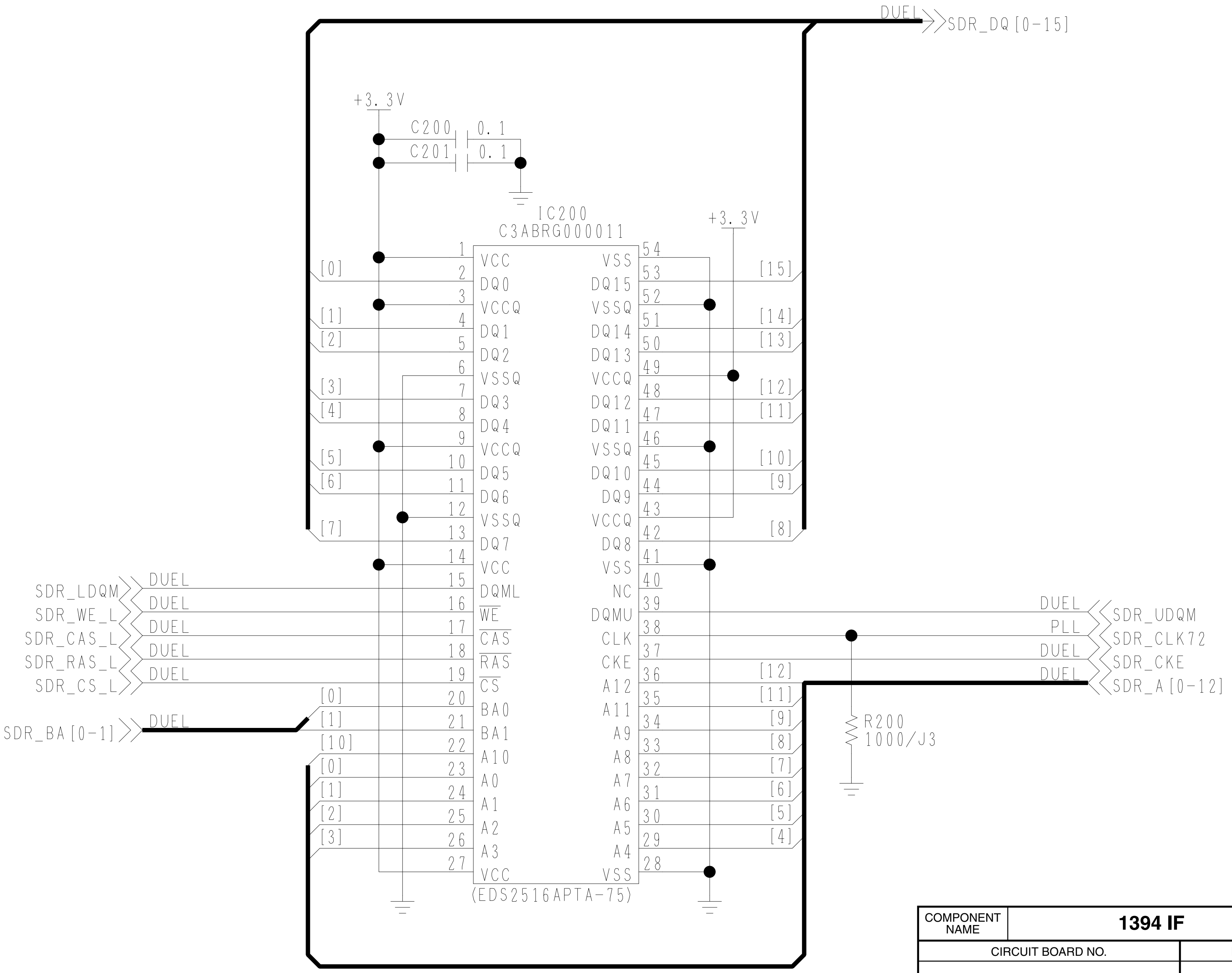
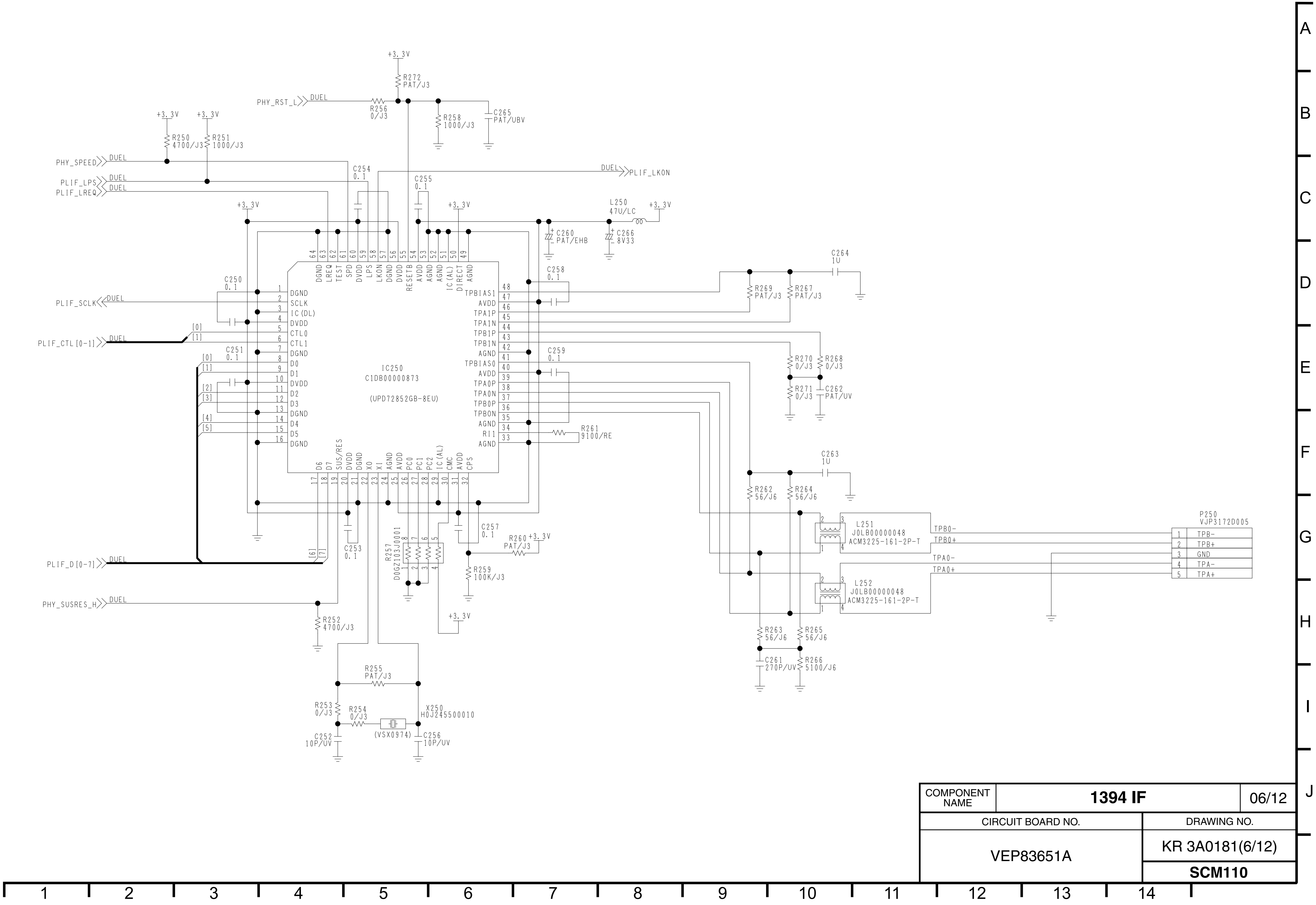
COMPONENT NAME	1394 IF	04/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83651A	KR 3A0181(4/12)	
	SCM108	


DUEL SDR_DQ[0-15]
+3.3V
C200 0.1
C201 0.1
IC200
C3ABRG000011
(EDS2516APTA-75)
1 VCC
2 DQ0
3 VCCQ
4 DQ1
5 DQ2
6 VSSQ
7 DQ3
8 DQ4
9 VCCQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 VCC
15 DQML
16 WE
17 CAS
18 RAS
19 CS
20 BA0
21 BA1
22 A10
23 A0
24 A1
25 A2
26 A3
27 VCC
54 VSS
53 DQ15
52 VSSQ
51 DQ14
50 DQ13
49 VCCQ
48 DQ12
47 DQ11
46 VSSQ
45 DQ10
44 DQ9
43 VCCQ
42 DQ8
41 VSS
40 NC
39 DQMU
38 CLK
37 CKE
36 A12
35 A11
34 A9
33 A8
32 A7
31 A6
30 A5
29 A4
28 VSS
[0] [1] [2] [3] [4] [5] [6] [7]
[15] [14] [13] [12] [11] [10] [9] [8]
SDR_LDQM DUEL
SDR_WE_L DUEL
SDR_CAS_L DUEL
SDR_RAS_L DUEL
SDR_CS_L DUEL
SDR_BA[0-1] DUEL
[0] [1] [10] [0] [1] [2] [3]
[12] [11] [9] [8] [7] [6] [5] [4]
DUEL SDR_UDQM
PLL SDR_CLK72
DUEL SDR_CKE
DUEL SDR_A[0-12]
R200
1000/J3

COMPONENT NAME	1394 IF	05/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83651A	KR 3A0181(5/12)	
	SCM109	


A
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I
J
1
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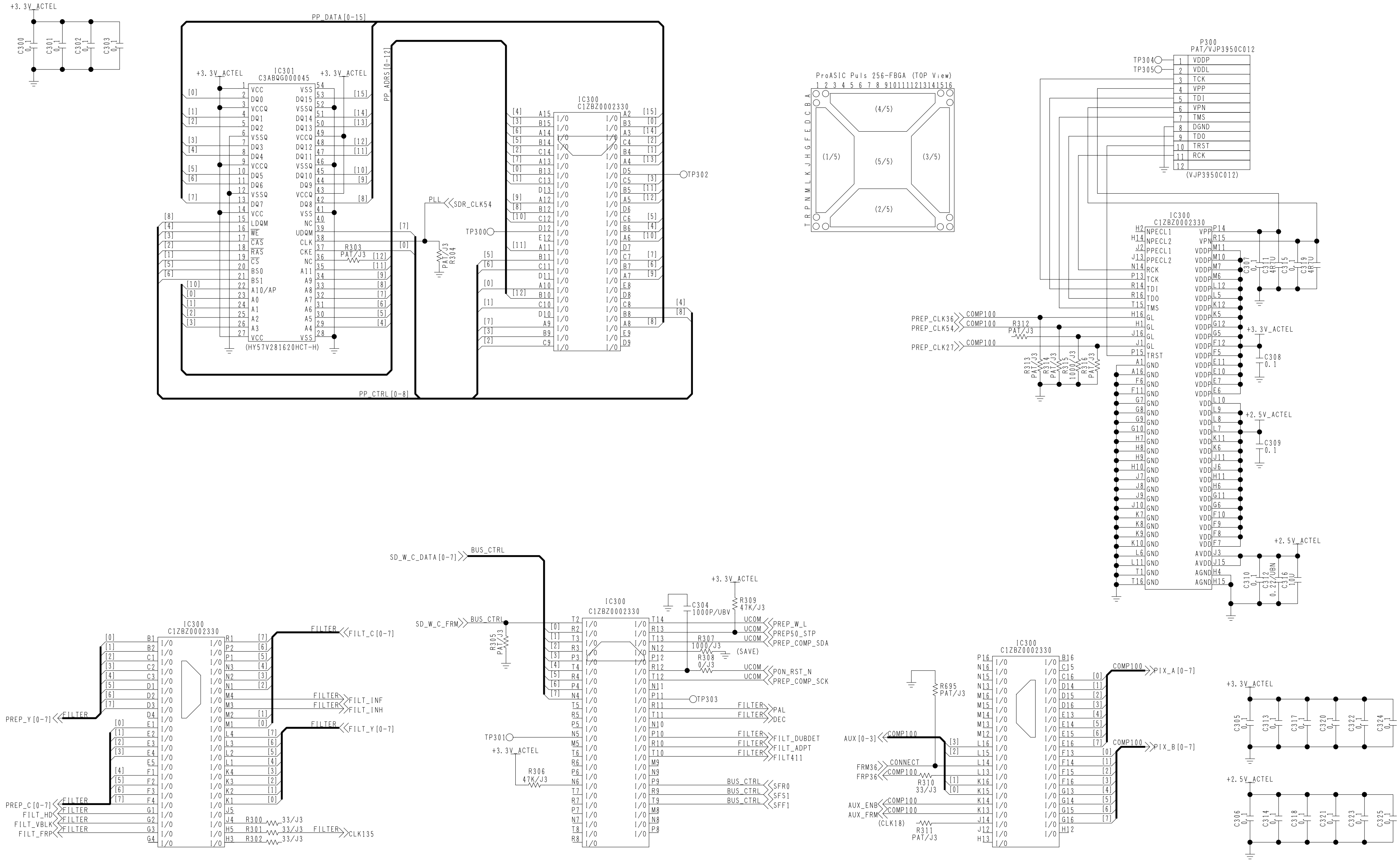
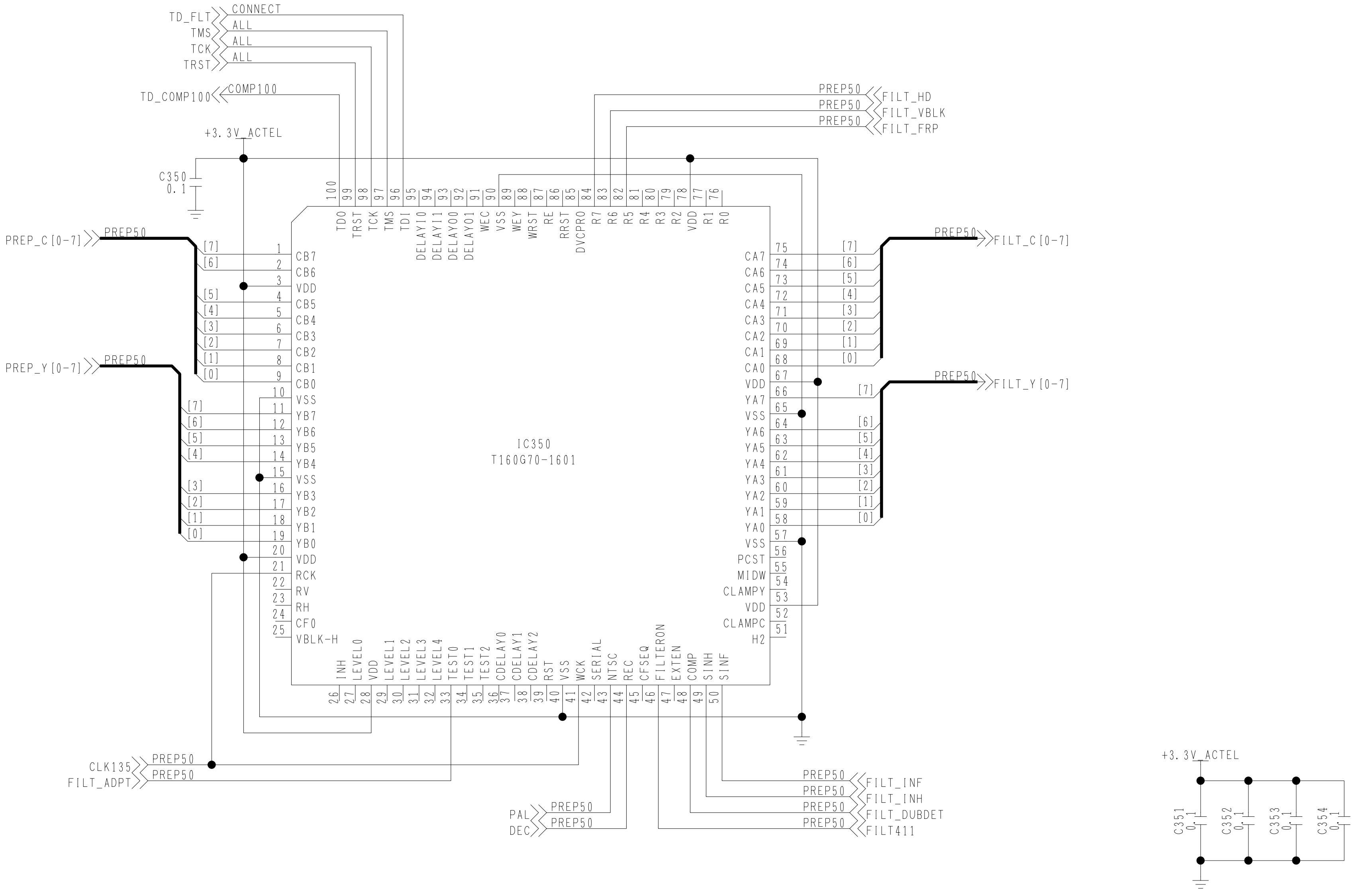
3
4
5
6
7
8
9
10
11
12
13
14
+3.3V
R272
PAT/J3
PHY_RST_L
DUEL
R256
0/J3
R258
1000/J3
C265
PAT/UBV
+3.3V
+3.3V
R250
4700/J3
R251
1000/J3
PHY_SPEED
DUEL
PLIF_LPS
DUEL
PLIF_LREQ
DUEL
C254
0.1
C255
0.1
DUEL
PLIF_LKON
+3.3V
+3.3V
L250
47U/LC
+3.3V
C260
PAT/EHB
C266
8V33
C264
1U
C258
0.1
C250
0.1
PLIF_SCLK
DUEL
PLIF_CTL[0-1]
DUEL
[0]
[1]
C251
0.1
[0]
[1]
[2]
[3]
[4]
[5]
IC250
C1DB00000873
(UPD72852GB-8EU)
DGND
SCLK
IC(DL)
DVDD
CTL0
CTL1
DGND
D0
D1
DVDD
D2
D3
DGND
D4
D5
DGND
DGND
LREQ
TEST
SPD
DVDD
LPS
LKON
DGND
DVDD
RESETB
AVDD
AGND
AGND
IC(AL)
DIRECT
AGND
TPBIAS1
AVDD
TPA1P
TPA1N
TPB1P
TPB1N
AGND
TPBIAS0
AVDD
TPA0P
TPA0N
TPB0P
TPB0N
AGND
RI1
AGND
D6
D7
SUS/RES
DVDD
DGND
X0
X1
AGND
AVDD
PC0
PC1
PC2
IC(AL)
CMC
AVDD
CPS
R269
PAT/J3
R267
PAT/J3
R270
0/J3
R268
0/J3
R271
0/J3
C262
PAT/UV
C259
0.1
R261
9100/RE
C263
1U
R262
56/J6
R264
56/J6
C257
0.1
R260
PAT/J3
+3.3V
C253
0.1
R257
D0GZ103J0001
R259
100K/J3
L251
J0LB00000048
ACM3225-161-2P-T
TPB0-
TPB0+
TPA0-
TPA0+
P250
VJP3172D005
TPB-
TPB+
GND
TPA-
TPA+
L252
J0LB00000048
ACM3225-161-2P-T
PLIF_D[0-7]
DUEL
[6]
[7]
PHY_SUSRES_H
DUEL
R252
4700/J3
+3.3V
R263
56/J6
R265
56/J6
C261
270P/UV
R266
5100/J6
R255
PAT/J3
R253
0/J3
R254
0/J3
X250
H0J245500010
(VSX0974)
C252
10P/UV
C256
10P/UV

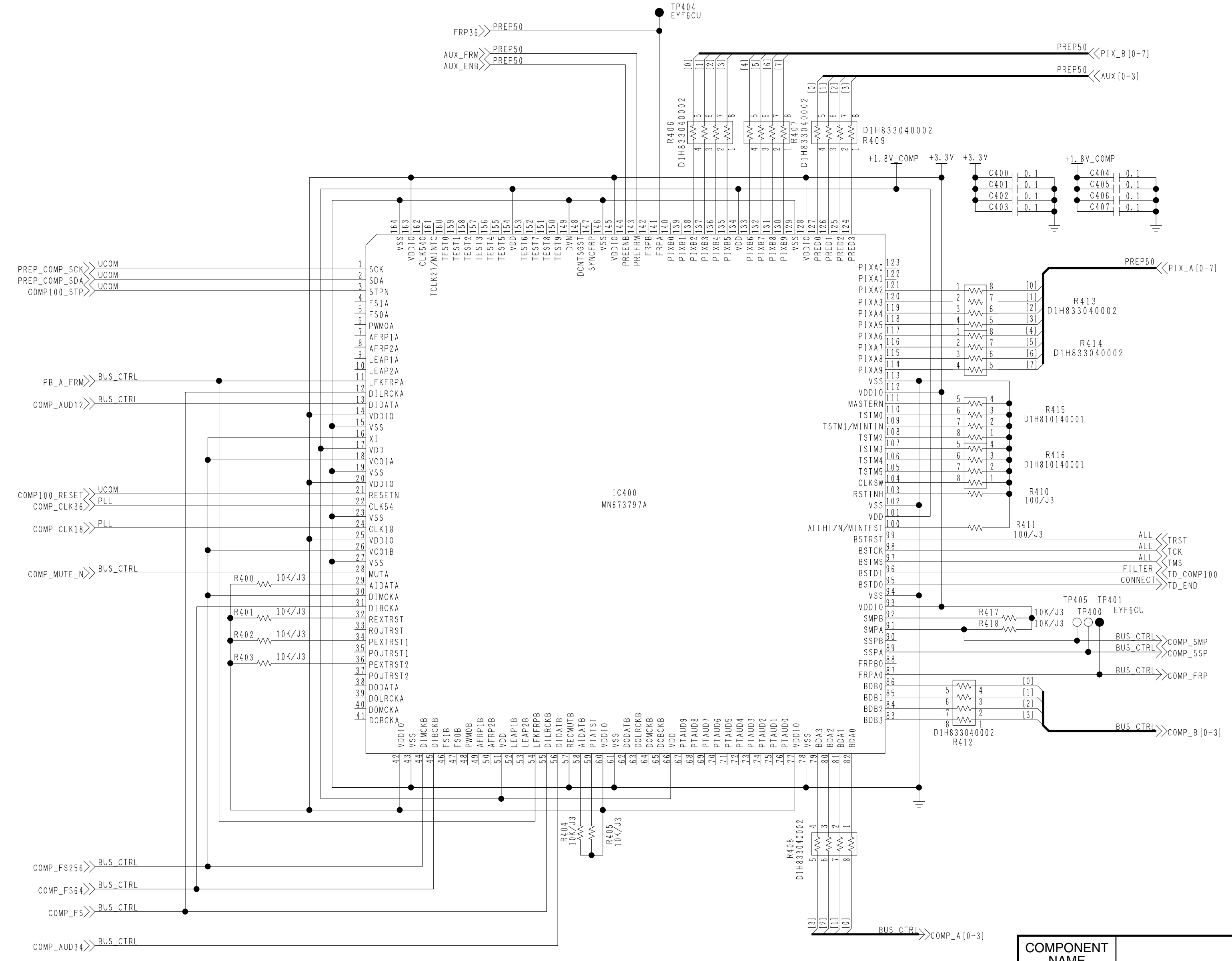
COMPONENT NAME	**1394 IF**	06/12
CIRCUIT BOARD NO.		DRAWING NO.
VEP83651A		KR 3A0181(6/12)
		SCM110


+3.3V_ACTEL
C300 0.1
C301 0.1
C302 0.1
C303 0.1
PP_DATA[0-15]
PP_ADRS[0-12]
IC301
C3ABQG000045
(HY57V281620HCT-H)
IC300
C1ZBZ0002330
PLL
SDR_CLK54
TP300
TP302
R303 PAT/J3
R304 PAT/J3
PP_CTRL[0-8]
ProASIC Puls 256-FBGA (TOP View)
(1/5)
(2/5)
(3/5)
(4/5)
(5/5)
P300
PAT/VJP3950C012
(VJP3950C012)
TP304
TP305
VDDP
VDDL
TCK
VPP
TDI
VPN
TMS
DGND
TDO
TRST
RCK
PREP_CLK36
PREP_CLK54
PREP_CLK27
COMP100
R312 PAT/J3
R313 PAT/J3
R314 PAT/J3
R315 1000/J3
R316 PAT/J3
C307 0.1
C311 4R7U
C315 0.1
C319 4R7U
C308 0.1
+2.5V_ACTEL
C309 0.1
C310 0.1
C312 0.22U/J8N
C316 10U
PREP_Y[0-7]
FILTER
FILT_C[0-7]
FILT_INF
FILT_INH
FILT_Y[0-7]
PREP_C[0-7]
FILT_HD
FILT_VBLK
FILT_FRP
R300 33/J3
R301 33/J3
R302 33/J3
CLK135
SD_W_C_DATA[0-7]
BUS_CTRL
SD_W_C_FRM
R305 PAT/J3
C304 1000P/UBV
R309 47K/J3
UCOM
PREP_W_L
PREP50_STP
PREP_COMP_SDA
R307 1000/J3
R308 0/J3
(SAVE)
PON_RST_N
PREP_COMP_SCK
TP303
PAL
DEC
TP301
R306 47K/J3
FILT_DUBDET
FILT_ADPT
FILT411
SFR0
SFS1
SFF1
R695 PAT/J3
AUX[0-3]
FRM36
FRP36
CONNECT
R310 33/J3
AUX_ENB
AUX_FRM
(CLK18)
R311 PAT/J3
PIX_A[0-7]
PIX_B[0-7]
C305 0.1
C313 0.1
C317 0.1
C320 0.1
C322 0.1
C324 0.1
C306 0.1
C314 0.1
C318 0.1
C321 0.1
C323 0.1
C325 0.1
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14

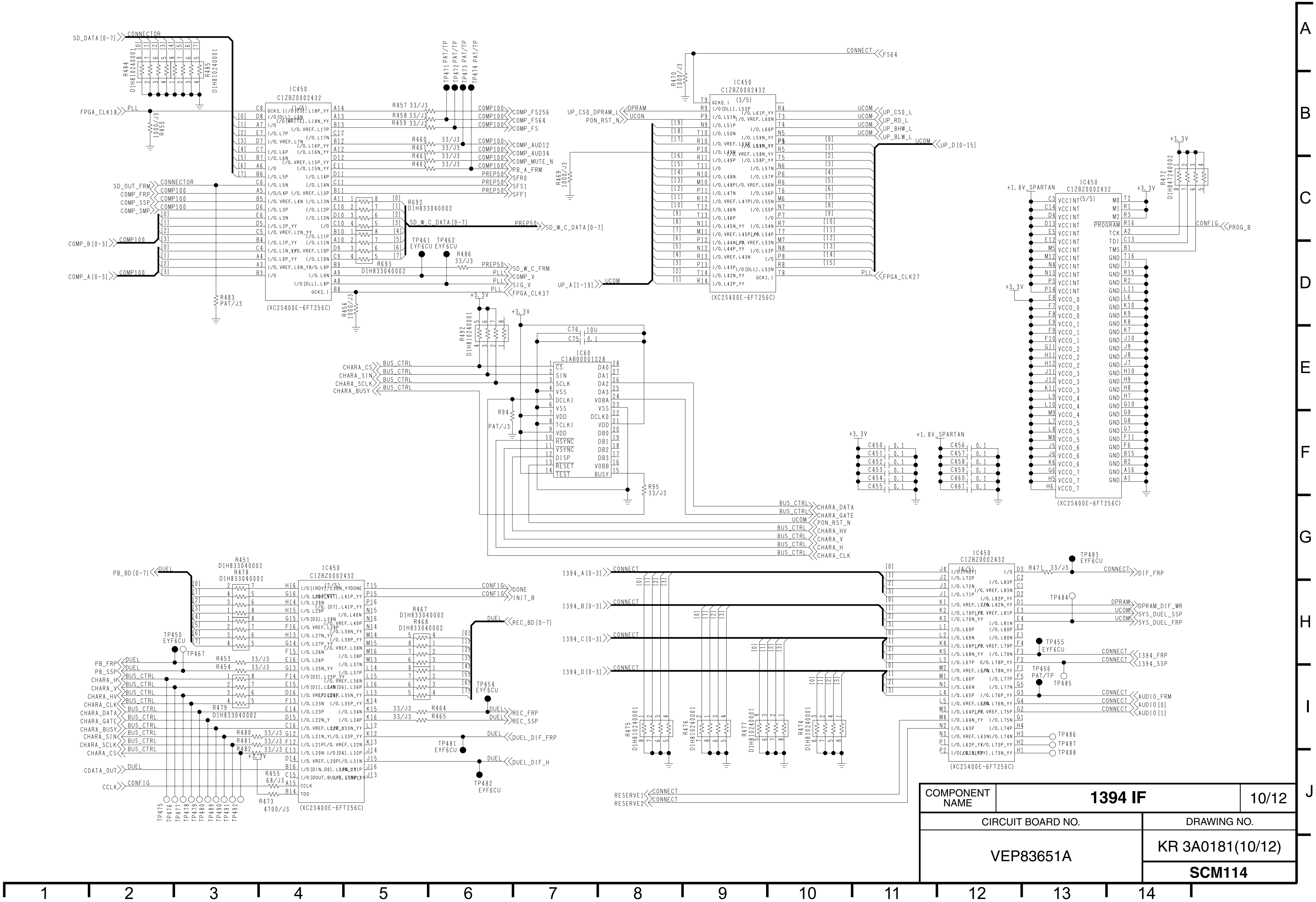
COMPONENT NAME	1394 IF		07/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83651A		KR 3A0181(7/12)	
		SCM111	


TD_FLT
TMS
TCK
TRST
CONNECT
ALL
ALL
ALL
TD_COMP100
COMP100
+3.3V_ACTEL
C350
0.1
PREP50
FILT_HD
FILT_VBLK
FILT_FRP
PREP_C[0-7]
PREP_Y[0-7]
FILT_C[0-7]
FILT_Y[0-7]
IC350
T160G70-1601
1 CB7
2 CB6
3 VDD
4 CB5
5 CB4
6 CB3
7 CB2
8 CB1
9 CB0
10 VSS
11 YB7
12 YB6
13 YB5
14 YB4
15 VSS
16 YB3
17 YB2
18 YB1
19 YB0
20 VDD
21 RCK
22 RV
23 RH
24 CF0
25 VBLK-H
26 INH
27 LEVEL0
28 VDD
29 LEVEL1
30 LEVEL2
31 LEVEL3
32 LEVEL4
33 TEST0
34 TEST1
35 TEST2
36 CDELAY0
37 CDELAY1
38 CDELAY2
39 RST
40 VSS
41 WCK
42 SERIAL
43 NTSC
44 REC
45 CFSEQ
46 FILTERON
47 EXTEN
48 COMP
49 SINH
50 SINF
51 H2
52 CLAMPC
53 VDD
54 CLAMPY
55 MIDW
56 PCST
57 VSS
58 YA0
59 YA1
60 YA2
61 YA3
62 YA4
63 YA5
64 YA6
65 VSS
66 YA7
67 VDD
68 CA0
69 CA1
70 CA2
71 CA3
72 CA4
73 CA5
74 CA6
75 CA7
76 R0
77 R1
78 VDD
79 R2
80 R3
81 R4
82 R5
83 R6
84 R7
85 DVCPRO
86 RRST
87 RE
88 WRST
89 WEY
90 VSS
91 WEC
92 DELAY01
93 DELAY00
94 DELAY11
95 DELAY10
96 TDI
97 TMS
98 TCK
99 TRST
100 TDO
[7]
[6]
[5]
[4]
[3]
[2]
[1]
[0]
CLK135
FILT_ADPT
PAL
DEC
FILT_INF
FILT_INH
FILT_DUBDET
FILT411
C351
C352
C353
C354
0.1

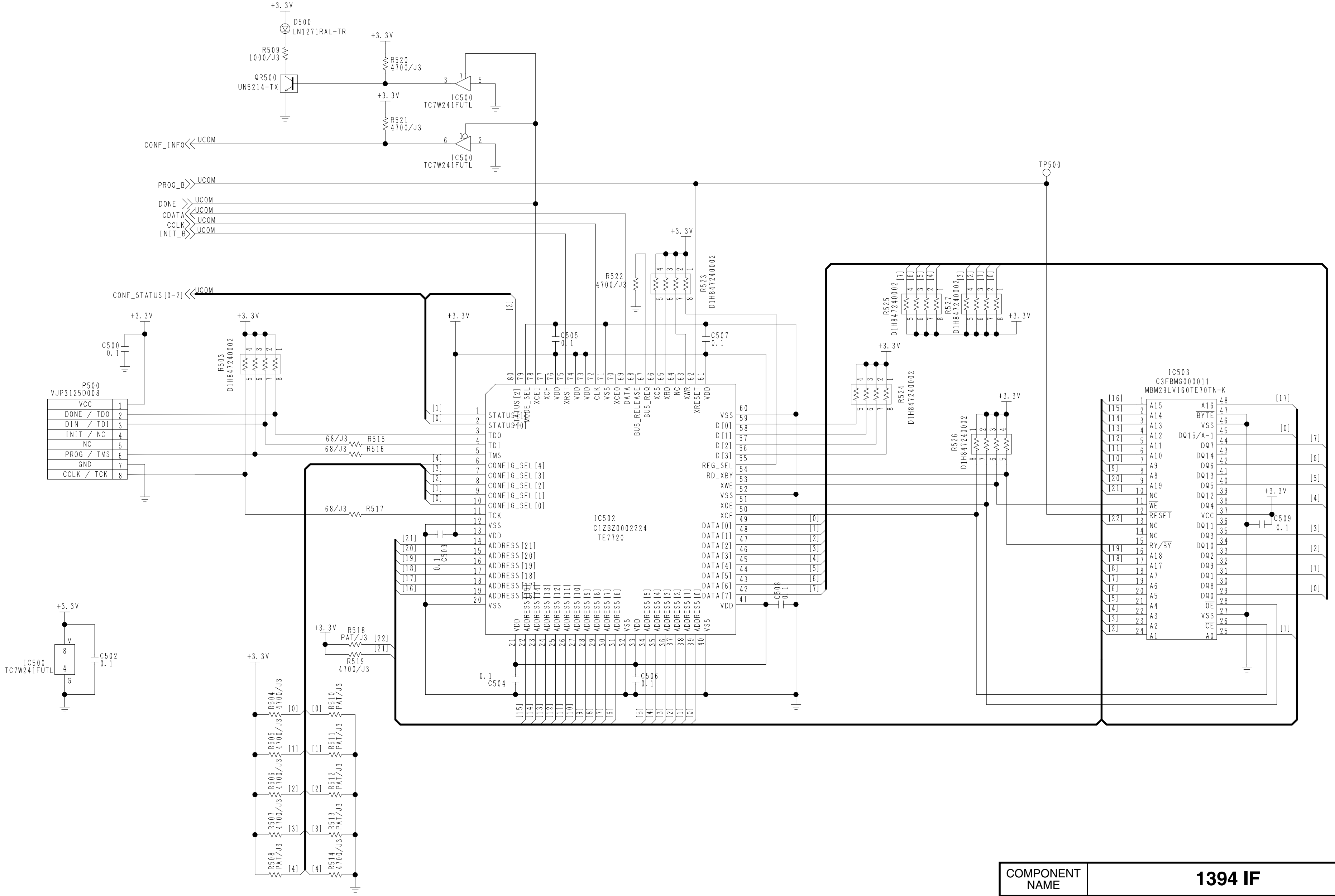
COMPONENT NAME	1394 IF		08/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83651A		KR 3A0181(8/12)	
		SCM112	


TP404
EYF6CU
FRP36
PREP50
AUX_FRM
AUX_ENB
PREP50 PIX_B[0-7]
PREP50 AUX[0-3]
R406
D1H833040002
R407
D1H833040002
R409
D1H833040002
+1.8V_COMP
+3.3V
C400 0.1
C401 0.1
C402 0.1
C403 0.1
C404 0.1
C405 0.1
C406 0.1
C407 0.1
PREP_COMP_SCK UCOM
PREP_COMP_SDA UCOM
COMP100_STP UCOM
PB_A_FRM BUS_CTRL
COMP_AUD12 BUS_CTRL
COMP100_RESET UCOM
COMP_CLK36 PLL
COMP_CLK18 PLL
COMP_MUTE_N BUS_CTRL
R400 10K/J3
R401 10K/J3
R402 10K/J3
R403 10K/J3
IC400
MN673797A
SCK
SDA
STPN
FS1A
FS0A
PWMOA
AFRP1A
AFRP2A
LEAP1A
LEAP2A
LFKFRPA
DILRCKA
DIDATA
VDDIO
VSS
XI
VDD
VCOIA
RESETN
CLK54
CLK18
VCO1B
MUTA
AIDATA
DIMCKA
DIBCKA
REXTRST
ROUTRST
PEXTRST1
POUTRST1
PEXTRST2
POUTRST2
DODATA
DOLRCKA
DOMCKA
DOBCKA
CLK540
TCLK27/MINTC
TEST0
TEST1
TEST2
TEST3
TEST4
TEST5
TEST6
TEST7
TEST8
TEST9
DVN
DCNTSGST
SYNCFRP
PREENB
PREFRM
FRPB
FRPA
PIXB0
PIXB1
PIXB2
PIXB3
PIXB4
PIXB5
PIXB6
PIXB7
PIXB8
PIXB9
PRED0
PRED1
PRED2
PRED3
PIXA0
PIXA1
PIXA2
PIXA3
PIXA4
PIXA5
PIXA6
PIXA7
PIXA8
PIXA9
MASTERN
TSTM0
TSTM1/MINTIN
TSTM2
TSTM3
TSTM4
TSTM5
CLKSW
RSTINH
ALLHIZN/MINTEST
BSTRST
BSTCK
BSTMS
BSTDI
BSTDO
SMPB
SMPA
SSPB
SSPA
FRPB0
FRPA0
BDB0
BDB1
BDB2
BDB3
DIMCKB
DIBCKB
FS1B
FS0B
PWMOB
AFRP1B
AFRP2B
LEAP1B
LEAP2B
LFKFRPB
DILRCKB
DIDATB
RECMUTB
AIDATB
PTATST
DODATB
DOLRCKB
DOMCKB
DOBCKB
PTAUD9
PTAUD8
PTAUD7
PTAUD6
PTAUD5
PTAUD4
PTAUD3
PTAUD2
PTAUD1
PTAUD0
BDA3
BDA2
BDA1
BDA0
PREP50 PIX_A[0-7]
R413
D1H833040002
R414
D1H833040002
R415
D1H810140001
R416
D1H810140001
R410
100/J3
R411
100/J3
ALL TRST
ALL TCK
ALL TMS
FILTER TD_COMP100
CONNECT TD_END
TP405
TP401
TP400
EYF6CU
R417 10K/J3
R418 10K/J3
BUS_CTRL COMP_SMP
BUS_CTRL COMP_SSP
BUS_CTRL COMP_FRP
BUS_CTRL COMP_B[0-3]
R412
D1H833040002
R404
10K/J3
R405
10K/J3
R408
D1H833040002
BUS_CTRL COMP_A[0-3]
COMP_FS256 BUS_CTRL
COMP_FS64 BUS_CTRL
COMP_FS BUS_CTRL
COMP_AUD34 BUS_CTRL

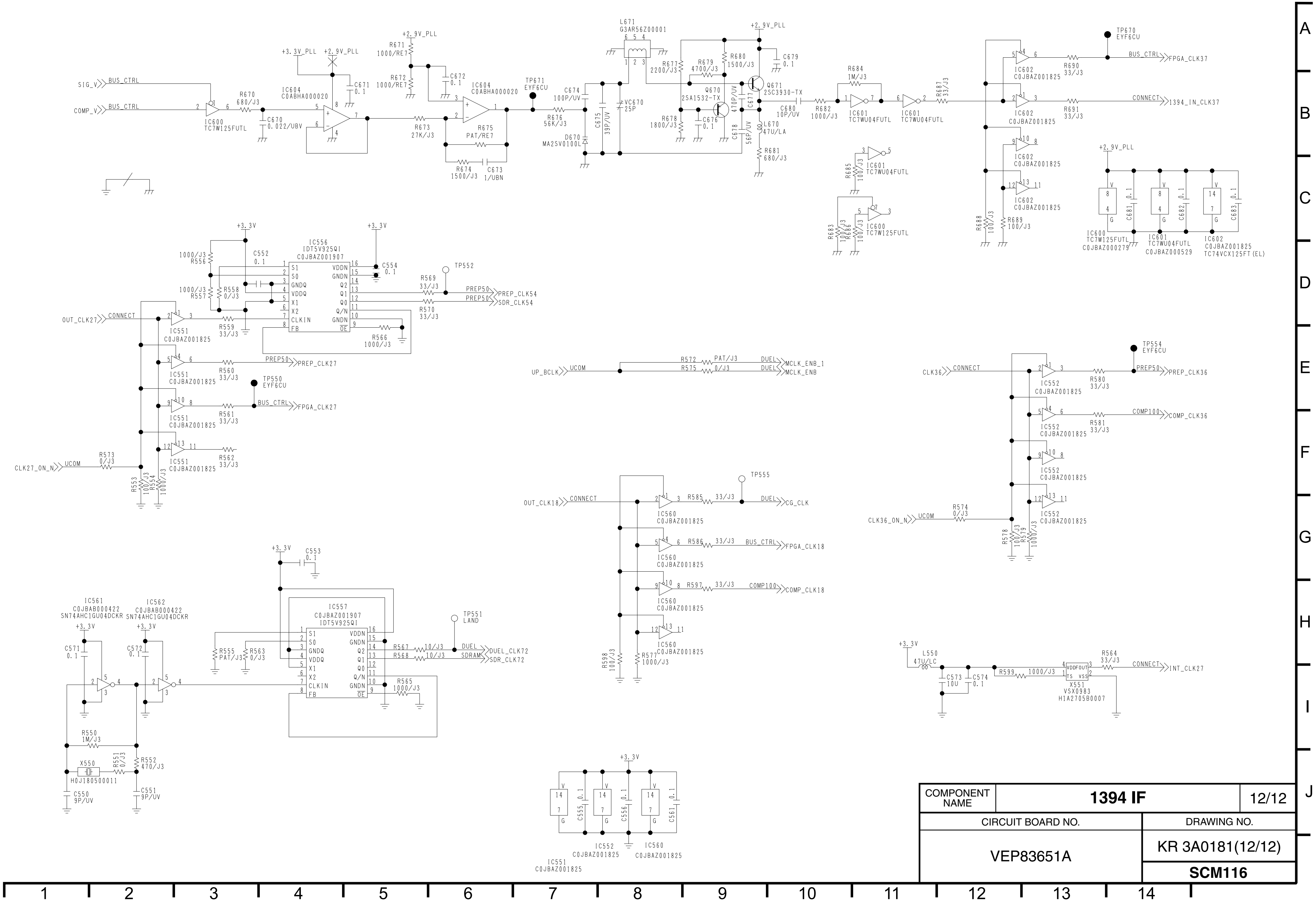
COMPONENT NAME	1394 IF	09/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83651A	KR 3A0181(9/12)	
	SCM113	


IC450
C1ZBZ0002432
(XC2S400E-6FT256C)
IC60
C1AB00001228
SD_DATA[0-7]
FPGA_CLK18
SD_OUT_FRM
COMP_FRP
COMP_SSP
COMP_SMP
COMP_B[0-3]
COMP_A[0-3]
COMP_FS256
COMP_FS64
COMP_FS
COMP_AUD12
COMP_AUD34
COMP_MUTE_N
PB_A_FRM
SFR0
SFS1
SFF1
SD_W_C_DATA[0-7]
SD_W_C_FRM
COMP_V
SIG_V
FPGA_CLK37
TP471 PAT/TP
TP472 PAT/TP
TP473 PAT/TP
TP474 PAT/TP
TP461 EYF6CU
TP462 EYF6CU
R484 D1H810240001
R485 D1H810240001
R692 D1H833040002
R693 D1H833040002
FS64
UP_CS0_DPRAM_L
PON_RST_N
UP_CS0_L
UP_RD_L
UP_BHW_L
UP_BLW_L
UP_D[0-15]
UP_A[1-19]
FPGA_CLK27
PROG_B
R472 D1H847240002
+3.3V
+1.8V_SPARTAN
CHARA_CS
CHARA_SIN
CHARA_SCLK
CHARA_BUSY
CHARA_DATA
CHARA_GATE
PON_RST_N
CHARA_HV
CHARA_V
CHARA_H
CHARA_CLK
R492 D1H810240001
PB_BD[0-7]
PB_FRP
PB_SSP
CHARA_HV
CDATA_OUT
CCLK
DONE
INIT_B
REC_BD[0-7]
REC_FRP
REC_SSP
DUEL_DIF_FRP
DUEL_DIF_H
TP450 EYF6CU
TP467
TP454 EYF6CU
TP481 EYF6CU
TP482 EYF6CU
TP475 TP476 TP477 TP478 TP479 TP480 TP489 TP490 TP491 TP492
1394_A[0-3]
1394_B[0-3]
1394_C[0-3]
1394_D[0-3]
R475 D1H810240001
R476 D1H810240001
R477 D1H810240001
R474 D1H810240001
RESERVE1
RESERVE2
DIF_FRP
DPRAM_DIF_WR
SYS_DUEL_SSP
SYS_DUEL_FRP
1394_FRP
1394_SSP
AUDIO_FRM
AUDIO[0]
AUDIO[1]
TP483 EYF6CU
TP484
TP455 EYF6CU
TP456 PAT/TP
TP485
TP486
TP487
TP488
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	1394 IF	10/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83651A	KR 3A0181(10/12)	
	SCM114	


+3.3V
D500
LN1271RAL-TR
R509
1000/J3
QR500
UN5214-TX
R520
4700/J3
R521
4700/J3
IC500
TC7W241FUTL
CONF_INFO
PROG_B
DONE
CDATA
CCLK
INIT_B
UCOM
CONF_STATUS[0-2]
TP500
R522
4700/J3
R523
D1H847240002
C505
0.1
C507
0.1
C500
0.1
P500
VJP3125D008
VCC
DONE / TDO
DIN / TDI
INIT / NC
NC
PROG / TMS
GND
CCLK / TCK
R503
D1H847240002
R515
R516
R517
68/J3
IC502
C1ZBZ0002224
TE7720
STATUS[1]
STATUS[0]
TDO
TDI
TMS
CONFIG_SEL[4]
CONFIG_SEL[3]
CONFIG_SEL[2]
CONFIG_SEL[1]
CONFIG_SEL[0]
TCK
VSS
VDD
ADDRESS[21]
ADDRESS[20]
ADDRESS[19]
ADDRESS[18]
ADDRESS[17]
ADDRESS[16]
STATUS[2]
MODE_SEL
XCEI
XCF
XRST
CLK
XCEO
DATA
BUS_RELEASE
BUS_REQ
XCS
XRD
NC
XWR
XRESET
D[0]
D[1]
D[2]
D[3]
REG_SEL
RD_XBY
XWE
XOE
XCE
DATA[0]
DATA[1]
DATA[2]
DATA[3]
DATA[4]
DATA[5]
DATA[6]
DATA[7]
ADDRESS[15]
ADDRESS[14]
ADDRESS[13]
ADDRESS[12]
ADDRESS[11]
ADDRESS[10]
ADDRESS[9]
ADDRESS[8]
ADDRESS[7]
ADDRESS[6]
ADDRESS[5]
ADDRESS[4]
ADDRESS[3]
ADDRESS[2]
ADDRESS[1]
ADDRESS[0]
C503
C504
C506
C508
0.1
R524
R525
R526
R527
D1H847240002
IC503
C3FBMG000011
MBM29LV160TE70TN-K
A16
BYTE
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
VCC
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE
CE
A0
WE
RESET
RY/BY
C509
0.1
C502
0.1
R518
PAT/J3
R519
4700/J3
R504
R505
R506
R507
4700/J3
R508
PAT/J3
R510
R511
R512
R513
PAT/J3
R514
4700/J3

COMPONENT NAME	1394 IF	11/12
CIRCUIT BOARD NO.		DRAWING NO.
VEP83651A		KR 3A0181(11/12)
		SCM115


SIG_V
BUS_CTRL
COMP_V
BUS_CTRL
IC600
TC7W125FUTL
R670
680/J3
C670
0.022/UBV
+3.3V_PLL
+2.9V_PLL
IC604
C0ABHA000020
C671
0.1
+2.9V_PLL
R671
1000/RE7
R672
1000/RE7
C672
0.1
IC604
C0ABHA000020
R673
27K/J3
R675
PAT/RE7
R674
1500/J3
C673
1/UBN
TP671
EYF6CU
C674
100P/UV
R676
56K/J3
D670
MA2SV0100L
C675
39P/UV
VC670
25P
L671
G3AR56Z00001
R677
2200/J3
R679
4700/J3
R680
1500/J3
Q670
2SA1532-TX
R678
1800/J3
C676
0.1
C677
470P/UV
C678
56P/UV
+2.9V_PLL
C679
0.1
Q671
2SC3930-TX
L670
47U/LA
R681
680/J3
C680
10P/UV
R682
1000/J3
R684
1M/J3
IC601
TC7WU04FUTL
IC601
TC7WU04FUTL
R687
33/J3
IC601
TC7WU04FUTL
R685
100/J3
IC600
TC7W125FUTL
R683
100/J3
R686
100/J3
TP670
EYF6CU
IC602
C0JBAZ001825
R690
33/J3
BUS_CTRL
FPGA_CLK37
IC602
C0JBAZ001825
R691
33/J3
CONNECT
1394_IN_CLK37
IC602
C0JBAZ001825
IC602
C0JBAZ001825
R688
100/J3
R689
100/J3
+2.9V_PLL
C681
0.1
C682
0.1
C683
0.1
IC600
TC7W125FUTL
C0JBAZ000279
IC601
TC7WU04FUTL
C0JBAZ000529
IC602
C0JBAZ001825
TC74VCX125FT(EL)
+3.3V
+3.3V
IC556
IDT5V925QI
C0JBAZ001907
R556
1000/J3
C552
0.1
R557
1000/J3
R558
0/J3
S1
S0
GNDQ
VDDQ
X1
X2
CLKIN
FB
VDDN
GNDN
Q2
Q1
Q0
Q/N
GNDN
OE
C554
0.1
TP552
R569
33/J3
PREP50
PREP_CLK54
PREP50
SDR_CLK54
R570
33/J3
R566
1000/J3
OUT_CLK27
CONNECT
IC551
C0JBAZ001825
R559
33/J3
R560
33/J3
PREP50
PREP_CLK27
IC551
C0JBAZ001825
TP550
EYF6CU
R561
33/J3
BUS_CTRL
FPGA_CLK27
IC551
C0JBAZ001825
R562
33/J3
IC551
C0JBAZ001825
CLK27_ON_N
UCOM
R573
0/J3
R553
100/J3
R554
1000/J3
UP_BCLK
UCOM
R572
PAT/J3
DUEL
MCLK_ENB_1
R575
0/J3
DUEL
MCLK_ENB
TP555
OUT_CLK18
CONNECT
R585
33/J3
DUEL
CG_CLK
IC560
C0JBAZ001825
R586
33/J3
BUS_CTRL
FPGA_CLK18
IC560
C0JBAZ001825
R597
33/J3
COMP100
COMP_CLK18
IC560
C0JBAZ001825
IC560
C0JBAZ001825
R598
100/J3
R577
1000/J3
TP554
EYF6CU
CLK36
CONNECT
IC552
C0JBAZ001825
R580
33/J3
PREP50
PREP_CLK36
IC552
C0JBAZ001825
R581
33/J3
COMP100
COMP_CLK36
IC552
C0JBAZ001825
IC552
C0JBAZ001825
CLK36_ON_N
UCOM
R574
0/J3
R578
100/J3
R579
1000/J3
IC561
C0JBAB000422
SN74AHC1GU04DCKR
IC562
C0JBAB000422
SN74AHC1GU04DCKR
+3.3V
+3.3V
C571
0.1
C572
0.1
R550
1M/J3
X550
H0J180500011
R551
0/J3
R552
470/J3
C550
9P/UV
C551
9P/UV
+3.3V
C553
0.1
IC557
C0JBAZ001907
IDT5V925QI
R555
PAT/J3
R563
0/J3
R567
10/J3
R568
10/J3
DUEL
DUEL_CLK72
SDRAM
SDR_CLK72
R565
1000/J3
TP551
LAND
+3.3V
L550
47U/LC
C573
10U
C574
0.1
R599
1000/J3
VDDFOUT
TS VSS
X551
VSX0983
H1A2705B0007
R564
33/J3
CONNECT
INT_CLK27
+3.3V
C555
0.1
C556
0.1
C561
0.1
IC551
C0JBAZ001825
IC552
C0JBAZ001825
IC560
C0JBAZ001825
A
B
C
D
E
F
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I
J
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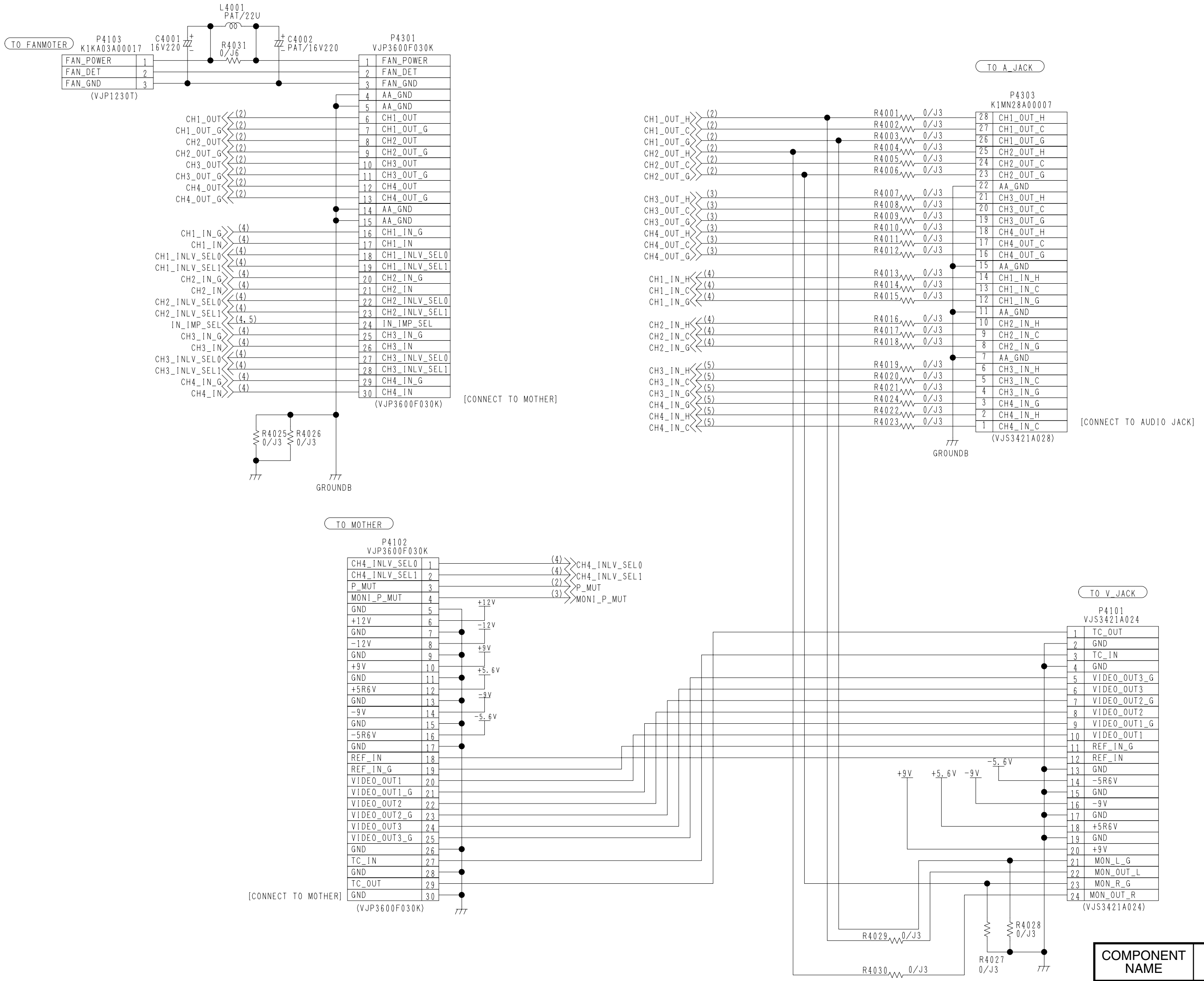
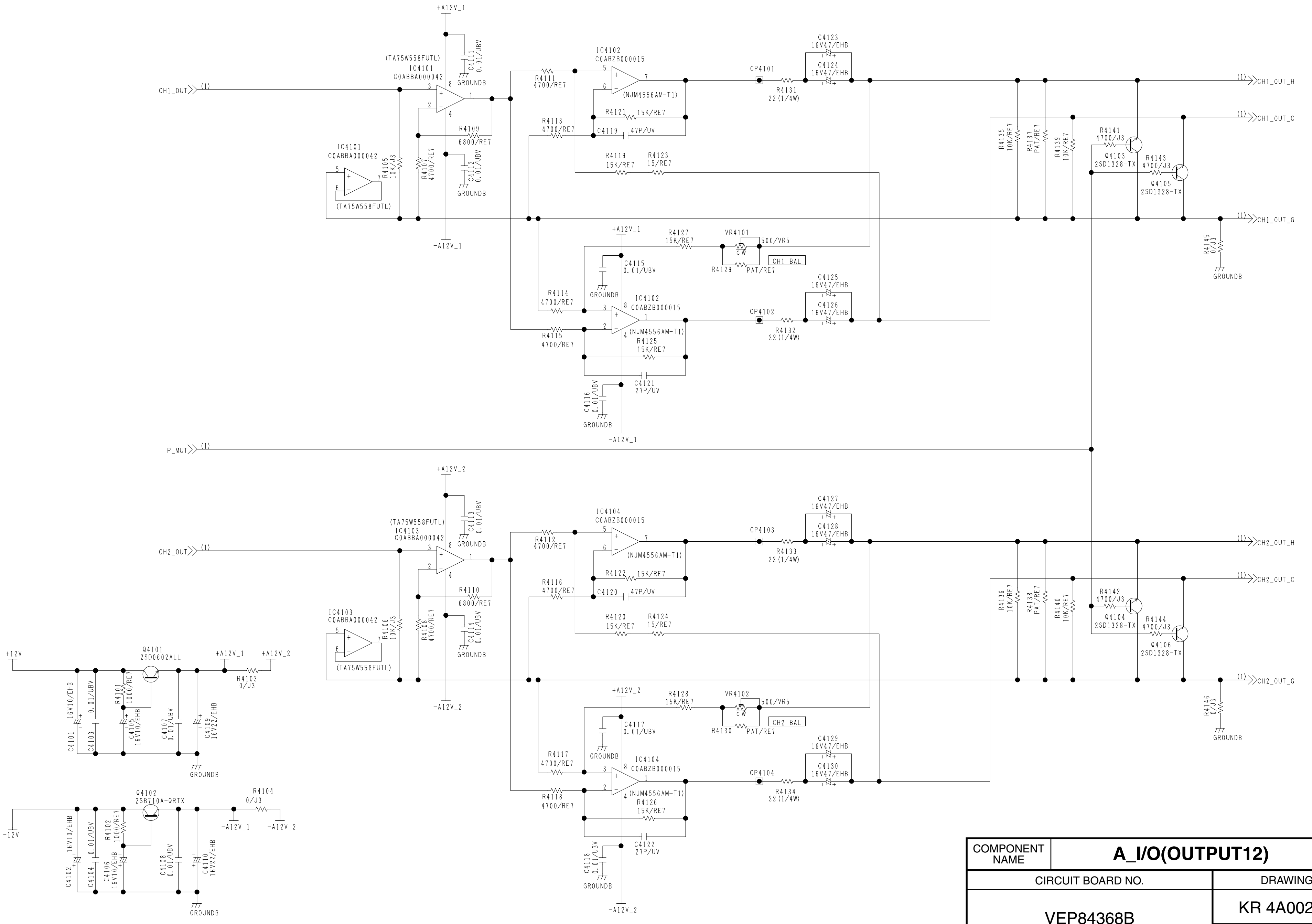
COMPONENT NAME	**1394 IF**	12/12
CIRCUIT BOARD NO.		DRAWING NO.
VEP83651A		KR 3A0181(12/12)
		SCM116


TO FANMOTER
P4103
K1KA03A00017
FAN_POWER 1
FAN_DET 2
FAN_GND 3
(VJP1230T)
C4001
16V220
L4001
PAT/22U
R4031
0/J6
C4002
PAT/16V220
P4301
VJP3600F030K
1 FAN_POWER
2 FAN_DET
3 FAN_GND
4 AA_GND
5 AA_GND
6 CH1_OUT
7 CH1_OUT_G
8 CH2_OUT
9 CH2_OUT_G
10 CH3_OUT
11 CH3_OUT_G
12 CH4_OUT
13 CH4_OUT_G
14 AA_GND
15 AA_GND
16 CH1_IN_G
17 CH1_IN
18 CH1_INLV_SEL0
19 CH1_INLV_SEL1
20 CH2_IN_G
21 CH2_IN
22 CH2_INLV_SEL0
23 CH2_INLV_SEL1
24 IN_IMP_SEL
25 CH3_IN_G
26 CH3_IN
27 CH3_INLV_SEL0
28 CH3_INLV_SEL1
29 CH4_IN_G
30 CH4_IN
(VJP3600F030K)
[CONNECT TO MOTHER]
R4025 0/J3
R4026 0/J3
GROUNDB
TO A_JACK
P4303
K1MN28A00007
28 CH1_OUT_H
27 CH1_OUT_C
26 CH1_OUT_G
25 CH2_OUT_H
24 CH2_OUT_C
23 CH2_OUT_G
22 AA_GND
21 CH3_OUT_H
20 CH3_OUT_C
19 CH3_OUT_G
18 CH4_OUT_H
17 CH4_OUT_C
16 CH4_OUT_G
15 AA_GND
14 CH1_IN_H
13 CH1_IN_C
12 CH1_IN_G
11 AA_GND
10 CH2_IN_H
9 CH2_IN_C
8 CH2_IN_G
7 AA_GND
6 CH3_IN_H
5 CH3_IN_C
4 CH3_IN_G
3 CH4_IN_G
2 CH4_IN_H
1 CH4_IN_C
(VJS3421A028)
[CONNECT TO AUDIO JACK]
R4001 0/J3
R4002 0/J3
R4003 0/J3
R4004 0/J3
R4005 0/J3
R4006 0/J3
R4007 0/J3
R4008 0/J3
R4009 0/J3
R4010 0/J3
R4011 0/J3
R4012 0/J3
R4013 0/J3
R4014 0/J3
R4015 0/J3
R4016 0/J3
R4017 0/J3
R4018 0/J3
R4019 0/J3
R4020 0/J3
R4021 0/J3
R4024 0/J3
R4022 0/J3
R4023 0/J3
GROUNDB
TO MOTHER
P4102
VJP3600F030K
CH4_INLV_SEL0 1
CH4_INLV_SEL1 2
P_MUT 3
MONI_P_MUT 4
GND 5
+12V 6
GND 7
-12V 8
GND 9
+9V 10
GND 11
+5R6V 12
GND 13
-9V 14
GND 15
-5R6V 16
GND 17
REF_IN 18
REF_IN_G 19
VIDEO_OUT1 20
VIDEO_OUT1_G 21
VIDEO_OUT2 22
VIDEO_OUT2_G 23
VIDEO_OUT3 24
VIDEO_OUT3_G 25
GND 26
TC_IN 27
GND 28
TC_OUT 29
GND 30
(VJP3600F030K)
[CONNECT TO MOTHER]
(4) CH4_INLV_SEL0
(4) CH4_INLV_SEL1
(2) P_MUT
(3) MONI_P_MUT
+12V
-12V
+9V
+5.6V
-9V
-5.6V
TO V_JACK
P4101
VJS3421A024
1 TC_OUT
2 GND
3 TC_IN
4 GND
5 VIDEO_OUT3_G
6 VIDEO_OUT3
7 VIDEO_OUT2_G
8 VIDEO_OUT2
9 VIDEO_OUT1_G
10 VIDEO_OUT1
11 REF_IN_G
12 REF_IN
13 GND
14 -5R6V
15 GND
16 -9V
17 GND
18 +5R6V
19 GND
20 +9V
21 MON_L_G
22 MON_OUT_L
23 MON_R_G
24 MON_OUT_R
(VJS3421A024)
R4029 0/J3
R4030 0/J3
R4027 0/J3
R4028 0/J3

COMPONENT NAME	A_I/O(CONNECTOR)	01/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84368B	KR 4A0021(1/5)	
	SCM059	



+A12V_1
(TA75W558FUTL)
IC4101
C0ABBA000042
C4111 0.01/UBV
GROUNDB
CH1_OUT
(1)
R4111 4700/RE7
IC4102 C0ABZB000015
(NJM4556AM-T1)
CP4101
C4123 16V47/EHB
C4124 16V47/EHB
R4131 22(1/4W)
CH1_OUT_H
CH1_OUT_C
CH1_OUT_G
R4121 15K/RE7
R4113 4700/RE7
C4119 47P/UV
R4109 6800/RE7
IC4101 C0ABBA000042
R4105 10K/J3
R4107 4700/RE7
C4112 0.01/UBV
R4119 15K/RE7
R4123 15/RE7
R4135 10K/RE7
R4137 PAT/RE7
R4139 10K/RE7
R4141 4700/J3
Q4103 2SD1328-TX
R4143 4700/J3
Q4105 2SD1328-TX
-A12V_1
R4127 15K/RE7
VR4101 500/VR5
CW
CH1 BAL
R4129 PAT/RE7
C4115 0.01/UBV
R4145 0/J3
R4114 4700/RE7
IC4102 C0ABZB000015
C4125 16V47/EHB
C4126 16V47/EHB
CP4102
R4132 22(1/4W)
R4115 4700/RE7
R4125 15K/RE7
C4121 27P/UV
C4116 0.01/UBV
P_MUT
+A12V_2
(TA75W558FUTL)
IC4103 C0ABBA000042
C4113 0.01/UBV
CH2_OUT
R4112 4700/RE7
IC4104 C0ABZB000015
CP4103
C4127 16V47/EHB
C4128 16V47/EHB
R4133 22(1/4W)
CH2_OUT_H
CH2_OUT_C
CH2_OUT_G
R4122 15K/RE7
R4116 4700/RE7
C4120 47P/UV
R4110 6800/RE7
R4106 10K/J3
R4108 4700/RE7
C4114 0.01/UBV
R4120 15K/RE7
R4124 15/RE7
R4136 10K/RE7
R4138 PAT/RE7
R4140 10K/RE7
R4142 4700/J3
Q4104 2SD1328-TX
R4144 4700/J3
Q4106 2SD1328-TX
-A12V_2
R4128 15K/RE7
VR4102 500/VR5
CH2 BAL
R4130 PAT/RE7
C4117 0.01/UBV
R4146 0/J3
R4117 4700/RE7
C4129 16V47/EHB
C4130 16V47/EHB
CP4104
R4134 22(1/4W)
R4118 4700/RE7
R4126 15K/RE7
C4122 27P/UV
C4118 0.01/UBV
+12V
Q4101 2SD0602ALL
R4101 1000/RE7
C4101 16V10/EHB
C4103 0.01/UBV
C4105 16V10/EHB
C4107 0.01/UBV
C4109 16V22/EHB
+A12V_1
+A12V_2
R4103 0/J3
-12V
Q4102 2SB710A-QRTX
R4102 1000/RE7
C4102 16V10/EHB
C4104 0.01/UBV
C4106 16V10/EHB
C4108 0.01/UBV
C4110 16V22/EHB
R4104 0/J3
-A12V_1
-A12V_2
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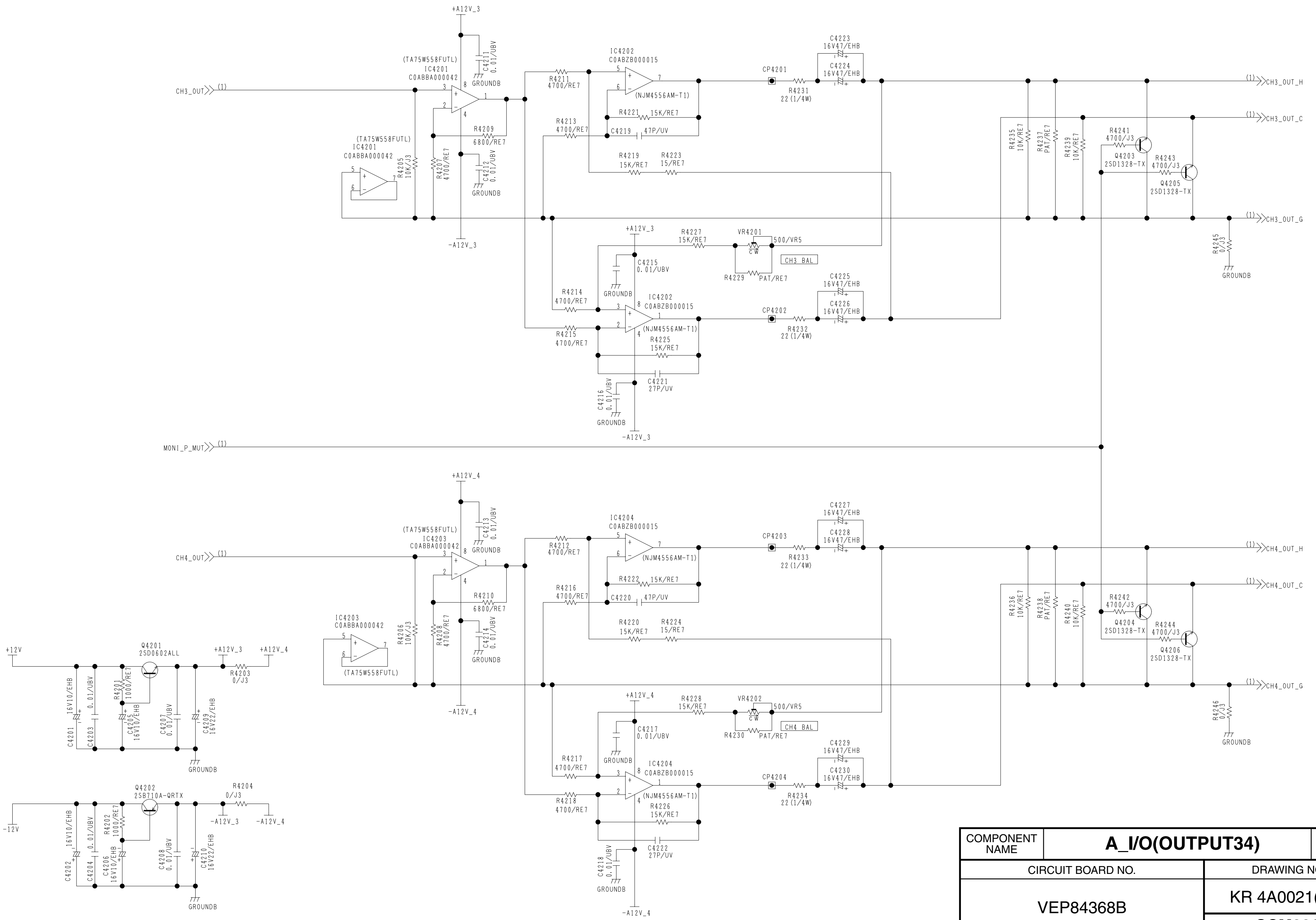
COMPONENT NAME	**A_I/O(OUTPUT12)**	02/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84368B	KR 4A0021(2/5) **SCM060**	



CH3_OUT
(1)
+A12V_3
-A12V_3
(TA75W558FUTL)
IC4201
C0ABBA000042
C4211 0.01/UBV
C4212 0.01/UBV
GROUNDB
R4205 10K/J3
R4207 4700/RE7
R4209 6800/RE7
IC4202
C0ABZB000015
(NJM4556AM-T1)
R4211 4700/RE7
R4213 4700/RE7
R4214 4700/RE7
R4215 4700/RE7
R4219 15K/RE7
R4221 15K/RE7
R4223 15/RE7
R4225 15K/RE7
R4227 15K/RE7
R4229 PAT/RE7
C4219 47P/UV
C4221 27P/UV
C4215 0.01/UBV
C4216 0.01/UBV
VR4201 500/VR5
CW
CH3 BAL
CP4201
CP4202
R4231 22(1/4W)
R4232 22(1/4W)
C4223 16V47/EHB
C4224 16V47/EHB
C4225 16V47/EHB
C4226 16V47/EHB
R4235 10K/RE7
R4237 PAT/RE7
R4239 10K/RE7
R4241 4700/J3
R4243 4700/J3
Q4203 2SD1328-TX
Q4205 2SD1328-TX
R4245 0/J3
CH3_OUT_H
CH3_OUT_C
CH3_OUT_G
MONI_P_MUT
CH4_OUT
+A12V_4
-A12V_4
IC4203
C0ABBA000042
C4213 0.01/UBV
C4214 0.01/UBV
R4206 10K/J3
R4208 4700/RE7
R4210 6800/RE7
IC4204
C0ABZB000015
R4212 4700/RE7
R4216 4700/RE7
R4217 4700/RE7
R4218 4700/RE7
R4220 15K/RE7
R4222 15K/RE7
R4224 15/RE7
R4226 15K/RE7
R4228 15K/RE7
R4230 PAT/RE7
C4220 47P/UV
C4222 27P/UV
C4217 0.01/UBV
C4218 0.01/UBV
VR4202 500/VR5
CH4 BAL
CP4203
CP4204
R4233 22(1/4W)
R4234 22(1/4W)
C4227 16V47/EHB
C4228 16V47/EHB
C4229 16V47/EHB
C4230 16V47/EHB
R4236 10K/RE7
R4238 PAT/RE7
R4240 10K/RE7
R4242 4700/J3
R4244 4700/J3
Q4204 2SD1328-TX
Q4206 2SD1328-TX
R4246 0/J3
CH4_OUT_H
CH4_OUT_C
CH4_OUT_G
+12V
Q4201 2SD0602ALL
R4201 1000/RE7
R4203 0/J3
C4201 16V10/EHB
C4203 0.01/UBV
C4205 16V10/EHB
C4207 0.01/UBV
C4209 16V22/EHB
+A12V_3
+A12V_4
-12V
Q4202 2SB710A-QRTX
R4202 1000/RE7
R4204 0/J3
C4202 16V10/EHB
C4204 0.01/UBV
C4206 16V10/EHB
C4208 0.01/UBV
C4210 16V22/EHB
-A12V_3
-A12V_4
A
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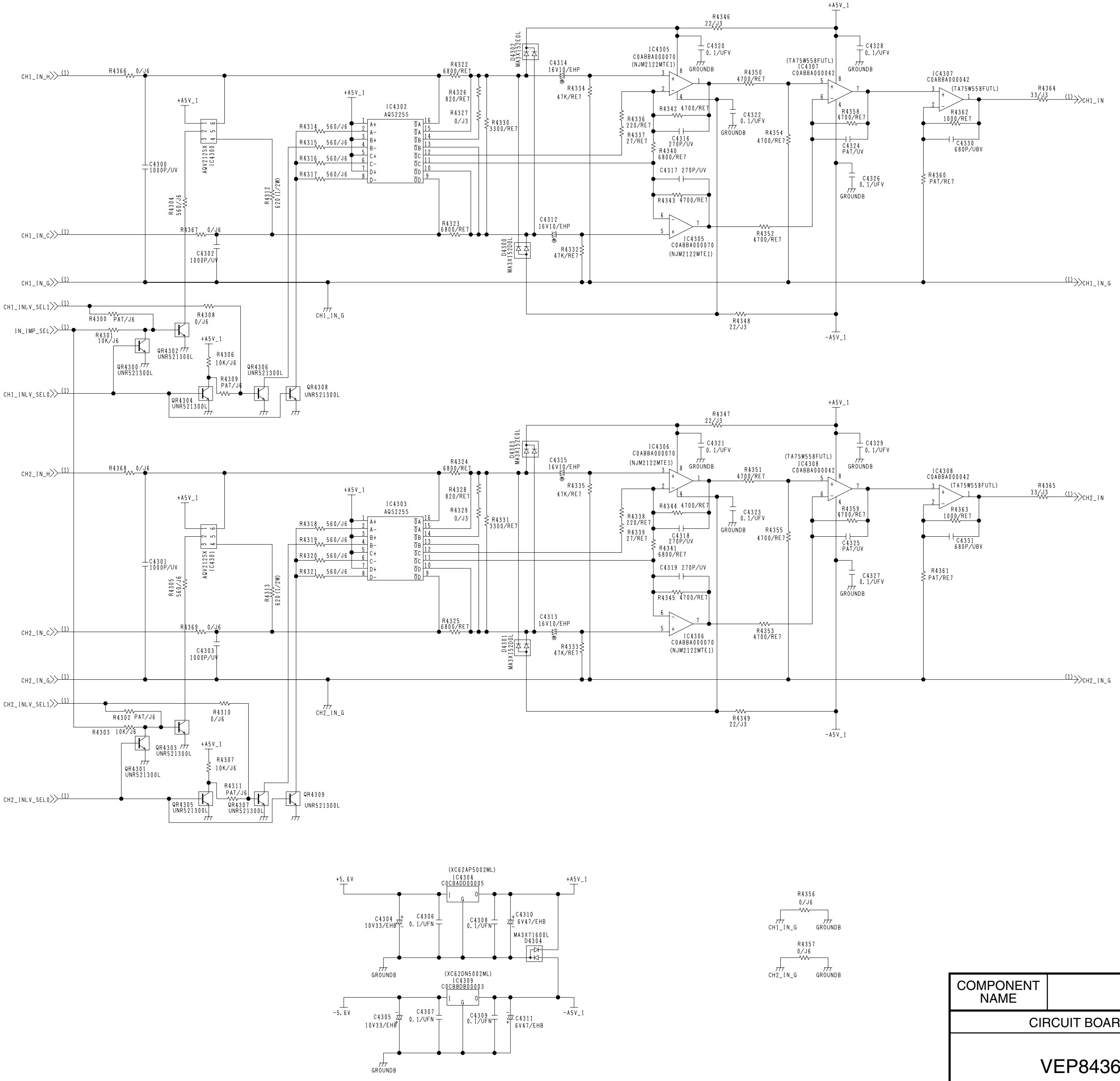
COMPONENT NAME	A_I/O(OUTPUT34)	03/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84368B	KR 4A0021(3/5)	
	SCM061	


CH1_IN_H
CH1_IN_C
CH1_IN_G
CH1_INLV_SEL1
IN_IMP_SEL
CH1_INLV_SEL0
CH2_IN_H
CH2_IN_C
CH2_IN_G
CH2_INLV_SEL1
CH2_INLV_SEL0
CH1_IN
CH1_IN_G
CH2_IN
CH2_IN_G
R4366 0/J6
R4367 0/J6
R4368 0/J6
R4369 0/J6
C4300 1000P/UV
C4301 1000P/UV
C4302 1000P/UV
C4303 1000P/UV
IC4300 AQV212SX
IC4301 AQV212SX
R4304 560/J6
R4305 560/J6
R4312 620(1/2W)
R4313 620(1/2W)
IC4302 AQS225S
IC4303 AQS225S
R4314 560/J6
R4315 560/J6
R4316 560/J6
R4317 560/J6
R4318 560/J6
R4319 560/J6
R4320 560/J6
R4321 560/J6
R4322 6800/RE7
R4323 6800/RE7
R4324 6800/RE7
R4325 6800/RE7
R4326 820/RE7
R4327 0/J3
R4328 820/RE7
R4329 0/J3
R4330 3300/RE7
R4331 3300/RE7
D4302 MA3X152E0L
D4300 MA3X152D0L
D4303 MA3X152E0L
D4301 MA3X152D0L
C4314 16V10/EHP
C4312 16V10/EHP
C4315 16V10/EHP
C4313 16V10/EHP
R4334 47K/RE7
R4332 47K/RE7
R4335 47K/RE7
R4333 47K/RE7
IC4305 C0ABBA000070 (NJM2122MTE1)
IC4306 C0ABBA000070 (NJM2122MTE1)
R4336 220/RE7
R4337 27/RE7
R4338 220/RE7
R4339 27/RE7
R4340 6800/RE7
R4341 6800/RE7
R4342 4700/RE7
R4343 4700/RE7
R4344 4700/RE7
R4345 4700/RE7
C4316 270P/UV
C4317 270P/UV
C4318 270P/UV
C4319 270P/UV
R4346 22/J3
R4347 22/J3
R4348 22/J3
R4349 22/J3
C4320 0.1/UFV
C4321 0.1/UFV
C4322 0.1/UFV
C4323 0.1/UFV
R4350 4700/RE7
R4351 4700/RE7
R4352 4700/RE7
R4353 4700/RE7
R4354 4700/RE7
R4355 4700/RE7
IC4307 C0ABBA000042 (TA75W558FUTL)
IC4308 C0ABBA000042 (TA75W558FUTL)
R4358 4700/RE7
R4359 4700/RE7
C4324 PAT/UV
C4325 PAT/UV
C4326 0.1/UFV
C4327 0.1/UFV
C4328 0.1/UFV
C4329 0.1/UFV
R4360 PAT/RE7
R4361 PAT/RE7
R4362 1000/RE7
R4363 1000/RE7
C4330 680P/UBV
C4331 680P/UBV
R4364 33/J3
R4365 33/J3
+A5V_1
-A5V_1
GROUNDB
R4300 PAT/J6
R4301 10K/J6
R4302 PAT/J6
R4303 10K/J6
R4306 10K/J6
R4307 10K/J6
R4308 0/J6
R4309 PAT/J6
R4310 0/J6
R4311 PAT/J6
QR4300 UNR521300L
QR4301 UNR521300L
QR4302 UNR521300L
QR4303 UNR521300L
QR4304 UNR521300L
QR4305 UNR521300L
QR4306 UNR521300L
QR4307 UNR521300L
QR4308 UNR521300L
QR4309 UNR521300L
+5.6V
-5.6V
+A5V_1
-A5V_1
IC4304 C0CBADD00005 (XC62AP5002ML)
IC4309 C0CBBD800003 (XC62DN5002ML)
C4304 10V33/EHB
C4305 10V33/EHB
C4306 0.1/UFN
C4307 0.1/UFN
C4308 0.1/UFN
C4309 0.1/UFN
C4310 6V47/EHB
C4311 6V47/EHB
D4304 MA3X716000L
R4356 0/J6
R4357 0/J6
CH1_IN_G
CH2_IN_G
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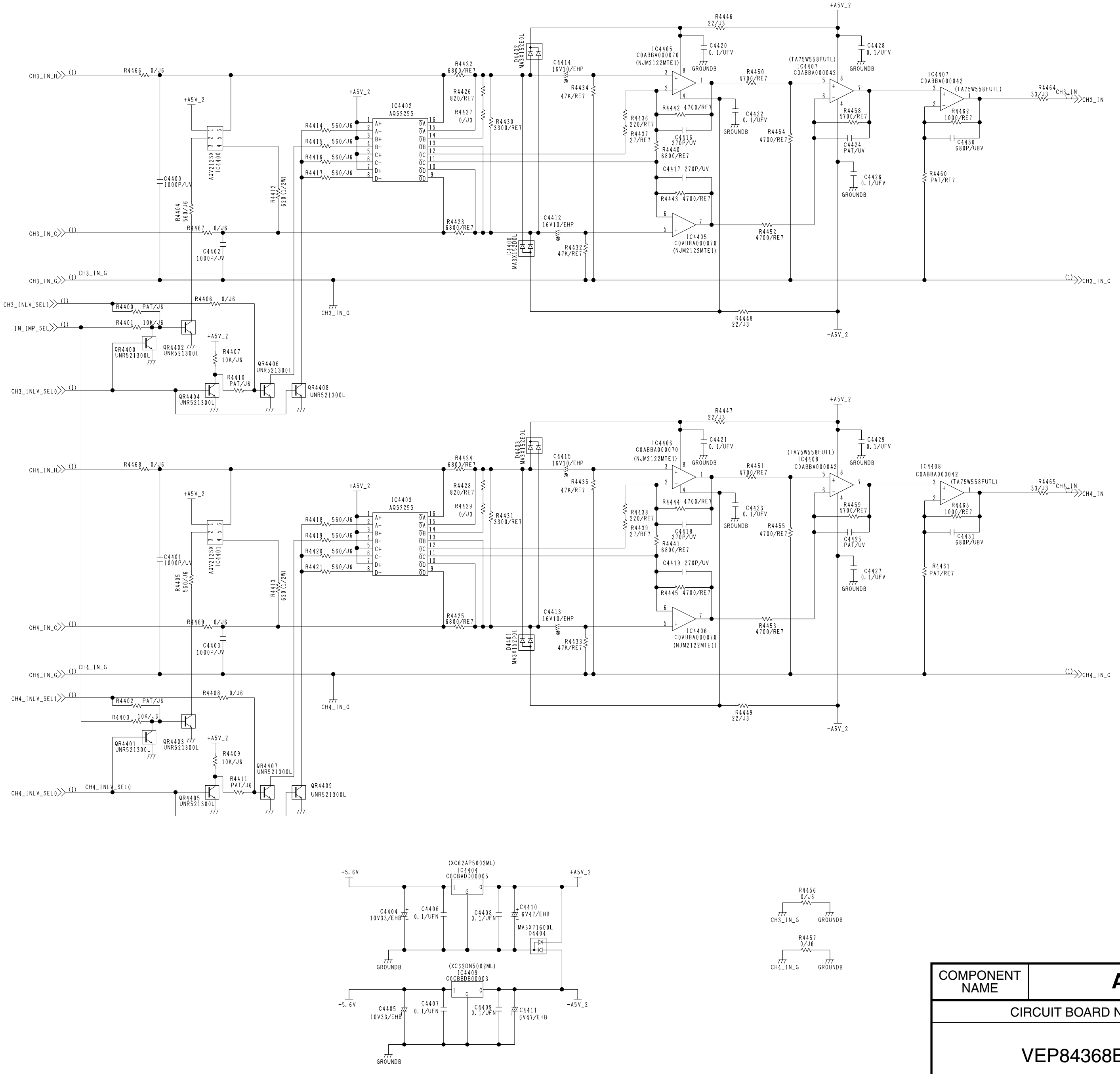
COMPONENT NAME	A_I/O(INPUT12)	04/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84368B	KR 4A0021(4/5)	
	SCM062	


CH3_IN_H
CH3_IN_C
CH3_IN_G
CH3_INLV_SEL1
IN_IMP_SEL
CH3_INLV_SEL0
CH4_IN_H
CH4_IN_C
CH4_IN_G
CH4_INLV_SEL1
CH4_INLV_SEL0
CH3_IN
CH4_IN
+A5V_2
-A5V_2
+5.6V
-5.6V
GROUNDB
IC4400 AQV212SX
IC4401 AQV212SX
IC4402 AQS225S
IC4403 AQS225S
IC4405 C0ABBA000070 (NJM2122MTE1)
IC4406 C0ABBA000070 (NJM2122MTE1)
IC4407 C0ABBA000042 (TA75W558FUTL)
IC4408 C0ABBA000042 (TA75W558FUTL)
(XC62AP5002ML) IC4404 C0CBADD00005
(XC62DN5002ML) IC4409 C0CBBDB00003
D4400 MA3X152E0L
D4401 MA3X152E0L
D4402 MA3X152E0L
D4403 MA3X152E0L
MA3X716D0L D4404
QR4400 UNR521300L
QR4401 UNR521300L
QR4402 UNR521300L
QR4403 UNR521300L
QR4404 UNR521300L
QR4405 UNR521300L
QR4406 UNR521300L
QR4407 UNR521300L
QR4408 UNR521300L
QR4409 UNR521300L
R4456 0/J6
R4457 0/J6
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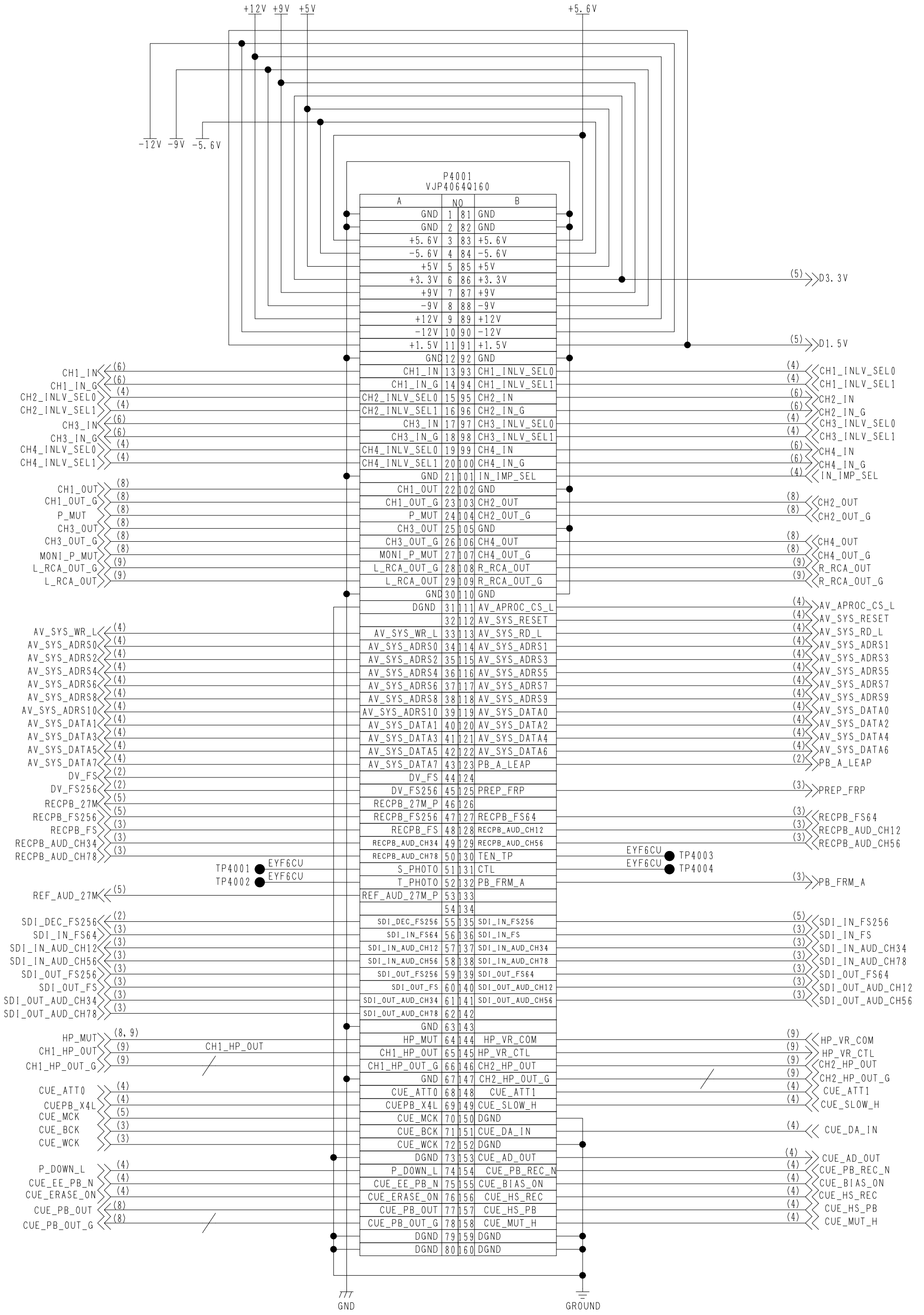
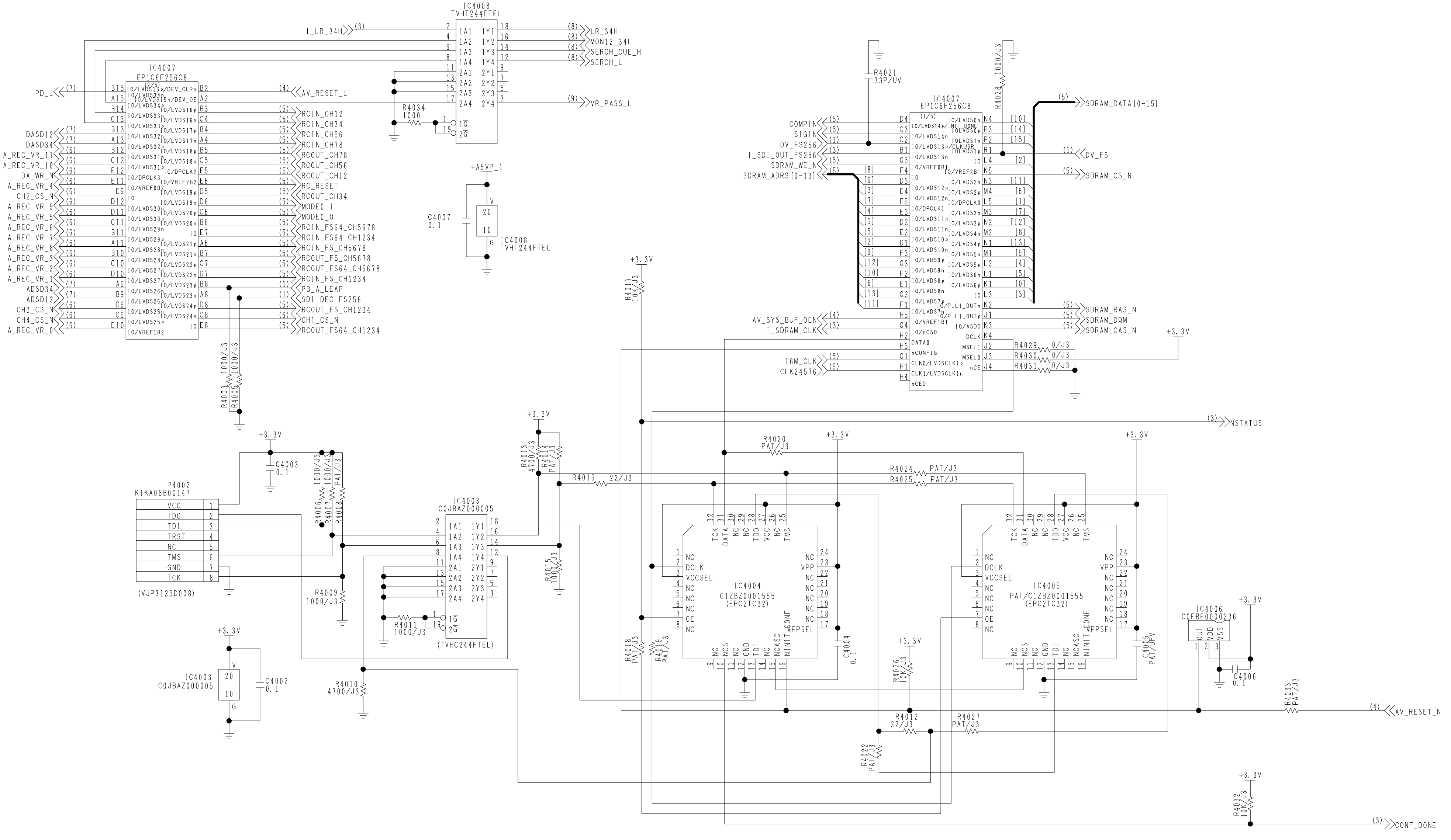
COMPONENT NAME	A_I/O(INPUT34)	05/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84368B	KR 4A0021(5/5)	
	SCM063	


+12V +9V +5V
+5.6V
-12V -9V -5.6V
P4001
VJP4064Q160
A NO B
GND 1 81 GND
GND 2 82 GND
+5.6V 3 83 +5.6V
-5.6V 4 84 -5.6V
+5V 5 85 +5V
+3.3V 6 86 +3.3V
+9V 7 87 +9V
-9V 8 88 -9V
+12V 9 89 +12V
-12V 10 90 -12V
+1.5V 11 91 +1.5V
GND 12 92 GND
CH1_IN 13 93 CH1_INLV_SEL0
CH1_IN_G 14 94 CH1_INLV_SEL1
CH2_INLV_SEL0 15 95 CH2_IN
CH2_INLV_SEL1 16 96 CH2_IN_G
CH3_IN 17 97 CH3_INLV_SEL0
CH3_IN_G 18 98 CH3_INLV_SEL1
CH4_INLV_SEL0 19 99 CH4_IN
CH4_INLV_SEL1 20 100 CH4_IN_G
GND 21 101 IN_IMP_SEL
CH1_OUT 22 102 GND
CH1_OUT_G 23 103 CH2_OUT
P_MUT 24 104 CH2_OUT_G
CH3_OUT 25 105 GND
CH3_OUT_G 26 106 CH4_OUT
MONI_P_MUT 27 107 CH4_OUT_G
L_RCA_OUT_G 28 108 R_RCA_OUT
L_RCA_OUT 29 109 R_RCA_OUT_G
GND 30 110 GND
DGND 31 111 AV_APROC_CS_L
32 112 AV_SYS_RESET
AV_SYS_WR_L 33 113 AV_SYS_RD_L
AV_SYS_ADRS0 34 114 AV_SYS_ADRS1
AV_SYS_ADRS2 35 115 AV_SYS_ADRS3
AV_SYS_ADRS4 36 116 AV_SYS_ADRS5
AV_SYS_ADRS6 37 117 AV_SYS_ADRS7
AV_SYS_ADRS8 38 118 AV_SYS_ADRS9
AV_SYS_ADRS10 39 119 AV_SYS_DATA0
AV_SYS_DATA1 40 120 AV_SYS_DATA2
AV_SYS_DATA3 41 121 AV_SYS_DATA4
AV_SYS_DATA5 42 122 AV_SYS_DATA6
AV_SYS_DATA7 43 123 PB_A_LEAP
DV_FS 44 124
DV_FS256 45 125 PREP_FRP
RECPB_27M_P 46 126
RECPB_FS256 47 127 RECPB_FS64
RECPB_FS 48 128 RECPB_AUD_CH12
RECPB_AUD_CH34 49 129 RECPB_AUD_CH56
RECPB_AUD_CH78 50 130 TEN_TP
S_PHOTO 51 131 CTL
T_PHOTO 52 132 PB_FRM_A
REF_AUD_27M_P 53 133
54 134
SDI_DEC_FS256 55 135 SDI_IN_FS256
SDI_IN_FS64 56 136 SDI_IN_FS
SDI_IN_AUD_CH12 57 137 SDI_IN_AUD_CH34
SDI_IN_AUD_CH56 58 138 SDI_IN_AUD_CH78
SDI_OUT_FS256 59 139 SDI_OUT_FS64
SDI_OUT_FS 60 140 SDI_OUT_AUD_CH12
SDI_OUT_AUD_CH34 61 141 SDI_OUT_AUD_CH56
SDI_OUT_AUD_CH78 62 142
GND 63 143
HP_MUT 64 144 HP_VR_COM
CH1_HP_OUT 65 145 HP_VR_CTL
CH1_HP_OUT_G 66 146 CH2_HP_OUT
GND 67 147 CH2_HP_OUT_G
CUE_ATT0 68 148 CUE_ATT1
CUEPB_X4L 69 149 CUE_SLOW_H
CUE_MCK 70 150 DGND
CUE_BCK 71 151 CUE_DA_IN
CUE_WCK 72 152 DGND
DGND 73 153 CUE_AD_OUT
P_DOWN_L 74 154 CUE_PB_REC_N
CUE_EE_PB_N 75 155 CUE_BIAS_ON
CUE_ERASE_ON 76 156 CUE_HS_REC
CUE_PB_OUT 77 157 CUE_HS_PB
CUE_PB_OUT_G 78 158 CUE_MUT_H
DGND 79 159 DGND
DGND 80 160 DGND
(5) D3.3V
(5) D1.5V
CH1_IN (6)
CH1_IN_G (6)
CH2_INLV_SEL0 (4)
CH2_INLV_SEL1 (4)
CH3_IN (6)
CH3_IN_G (6)
CH4_INLV_SEL0 (4)
CH4_INLV_SEL1 (4)
CH1_OUT (8)
CH1_OUT_G (8)
P_MUT (8)
CH3_OUT (8)
CH3_OUT_G (8)
MONI_P_MUT (8)
L_RCA_OUT_G (9)
L_RCA_OUT (9)
AV_SYS_WR_L (4)
AV_SYS_ADRS0 (4)
AV_SYS_ADRS2 (4)
AV_SYS_ADRS4 (4)
AV_SYS_ADRS6 (4)
AV_SYS_ADRS8 (4)
AV_SYS_ADRS10 (4)
AV_SYS_DATA1 (4)
AV_SYS_DATA3 (4)
AV_SYS_DATA5 (4)
AV_SYS_DATA7 (4)
DV_FS (2)
DV_FS256 (2)
RECPB_27M (5)
RECPB_FS256 (5)
RECPB_FS (3)
RECPB_AUD_CH34 (3)
RECPB_AUD_CH78 (3)
TP4001 EYF6CU
TP4002 EYF6CU
REF_AUD_27M (5)
SDI_DEC_FS256 (2)
SDI_IN_FS64 (3)
SDI_IN_AUD_CH12 (3)
SDI_IN_AUD_CH56 (3)
SDI_OUT_FS256 (3)
SDI_OUT_FS (3)
SDI_OUT_AUD_CH34 (3)
SDI_OUT_AUD_CH78 (3)
HP_MUT (8, 9)
CH1_HP_OUT (9)
CH1_HP_OUT_G (9)
CH1_HP_OUT
CUE_ATT0 (4)
CUEPB_X4L (4)
CUE_MCK (5)
CUE_BCK (3)
CUE_WCK (3)
P_DOWN_L (4)
CUE_EE_PB_N (4)
CUE_ERASE_ON (4)
CUE_PB_OUT (8)
CUE_PB_OUT_G (8)
(4) CH1_INLV_SEL0
(4) CH1_INLV_SEL1
(6) CH2_IN
(6) CH2_IN_G
(4) CH3_INLV_SEL0
(4) CH3_INLV_SEL1
(6) CH4_IN
(6) CH4_IN_G
(4) IN_IMP_SEL
(8) CH2_OUT
(8) CH2_OUT_G
(8) CH4_OUT
(8) CH4_OUT_G
(9) R_RCA_OUT
(9) R_RCA_OUT_G
(4) AV_APROC_CS_L
(4) AV_SYS_RESET
(4) AV_SYS_RD_L
(4) AV_SYS_ADRS1
(4) AV_SYS_ADRS3
(4) AV_SYS_ADRS5
(4) AV_SYS_ADRS7
(4) AV_SYS_ADRS9
(4) AV_SYS_DATA0
(4) AV_SYS_DATA2
(4) AV_SYS_DATA4
(4) AV_SYS_DATA6
(2) PB_A_LEAP
(3) PREP_FRP
(3) RECPB_FS64
(3) RECPB_AUD_CH12
(3) RECPB_AUD_CH56
EYF6CU TP4003
EYF6CU TP4004
(3) PB_FRM_A
(5) SDI_IN_FS256
(3) SDI_IN_FS
(3) SDI_IN_AUD_CH34
(3) SDI_IN_AUD_CH78
(3) SDI_OUT_FS64
(3) SDI_OUT_AUD_CH12
(3) SDI_OUT_AUD_CH56
(9) HP_VR_COM
(9) HP_VR_CTL
(9) CH2_HP_OUT
(9) CH2_HP_OUT_G
(4) CUE_ATT1
(4) CUE_SLOW_H
(4) CUE_DA_IN
(4) CUE_AD_OUT
(4) CUE_PB_REC_N
(4) CUE_BIAS_ON
(4) CUE_HS_REC
(4) CUE_HS_PB
(4) CUE_MUT_H
GND
GROUND

COMPONENT NAME	**APROC**	01/9
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84393B	KR 4A0089(1/9) **SCM018**	

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14


IC4008
TVHT244FTEL
I_LR_34H
LR_34H
MON12_34L
SERCH_CUE_H
SERCH_L
VR_PASS_L
R4034
1000
IC4007
EP1C6F256C8
(2/5)
PD_L
AV_RESET_L
RCIN_CH12
RCIN_CH34
RCIN_CH56
RCIN_CH78
RCOUT_CH78
RCOUT_CH56
RCOUT_CH12
RC_RESET
RCOUT_CH34
MODE0_I
MODE0_O
RCIN_FS64_CH5678
RCIN_FS64_CH1234
RCIN_FS_CH5678
RCOUT_FS_CH5678
RCOUT_FS64_CH5678
RCIN_FS_CH1234
PB_A_LEAP
SDI_DEC_FS256
RCOUT_FS_CH1234
CH1_CS_N
RCOUT_FS64_CH1234
DASD12
DASD34
A_REC_VR_11
A_REC_VR_10
DA_WR_N
A_REC_VR_4
CH2_CS_N
A_REC_VR_9
A_REC_VR_5
A_REC_VR_6
A_REC_VR_7
A_REC_VR_8
A_REC_VR_3
A_REC_VR_2
A_REC_VR_1
ADSD34
ADSD12
CH3_CS_N
CH4_CS_N
A_REC_VR_0
+A5VP_1
C4007
0.1
R4003 1000/J3
R4005 1000/J3
R4021
33P/UV
R4028 1000/J3
IC4007
EP1C6F256C8
(1/5)
COMPIN
SIGIN
DV_FS256
I_SDI_OUT_FS256
SDRAM_WE_N
SDRAM_ADRS[0-13]
SDRAM_DATA[0-15]
DV_FS
SDRAM_CS_N
SDRAM_RAS_N
SDRAM_DQM
SDRAM_CAS_N
AV_SYS_BUF_OEN
I_SDRAM_CLK
I6M_CLK
CLK24576
R4029 0/J3
R4030 0/J3
R4031 0/J3
+3.3V
R4017 10K/J3
NSTATUS
P4002
K1KA08B00147
VCC
TDO
TDI
TRST
NC
TMS
GND
TCK
(VJP3125D008)
C4003
0.1
R4006 1000/J3
R4007 1000/J3
R4008 PAT/J3
R4009
1000/J3
IC4003
C0JBAZ000005
(TVHC244FTEL)
R4011
1000/J3
R4010
4700/J3
R4013 4700/J3
R4014 PAT/J3
R4015 1000/J3
R4016 22/J3
C4002
0.1
R4020
PAT/J3
R4024 PAT/J3
R4025 PAT/J3
IC4004
C1ZBZ0001555
(EPC2TC32)
IC4005
PAT/C1ZBZ0001555
(EPC2TC32)
C4004
0.1
C4005
PAT/UFV
R4018 PAT/J3
R4019 PAT/J3
R4026 10K/J3
R4012
22/J3
R4027
PAT/J3
R4022 PAT/J3
IC4006
C0EBE0000236
C4006
0.1
R4033 PAT/J3
AV_RESET_N
R4032 10K/J3
CONF_DONE
A
B
C
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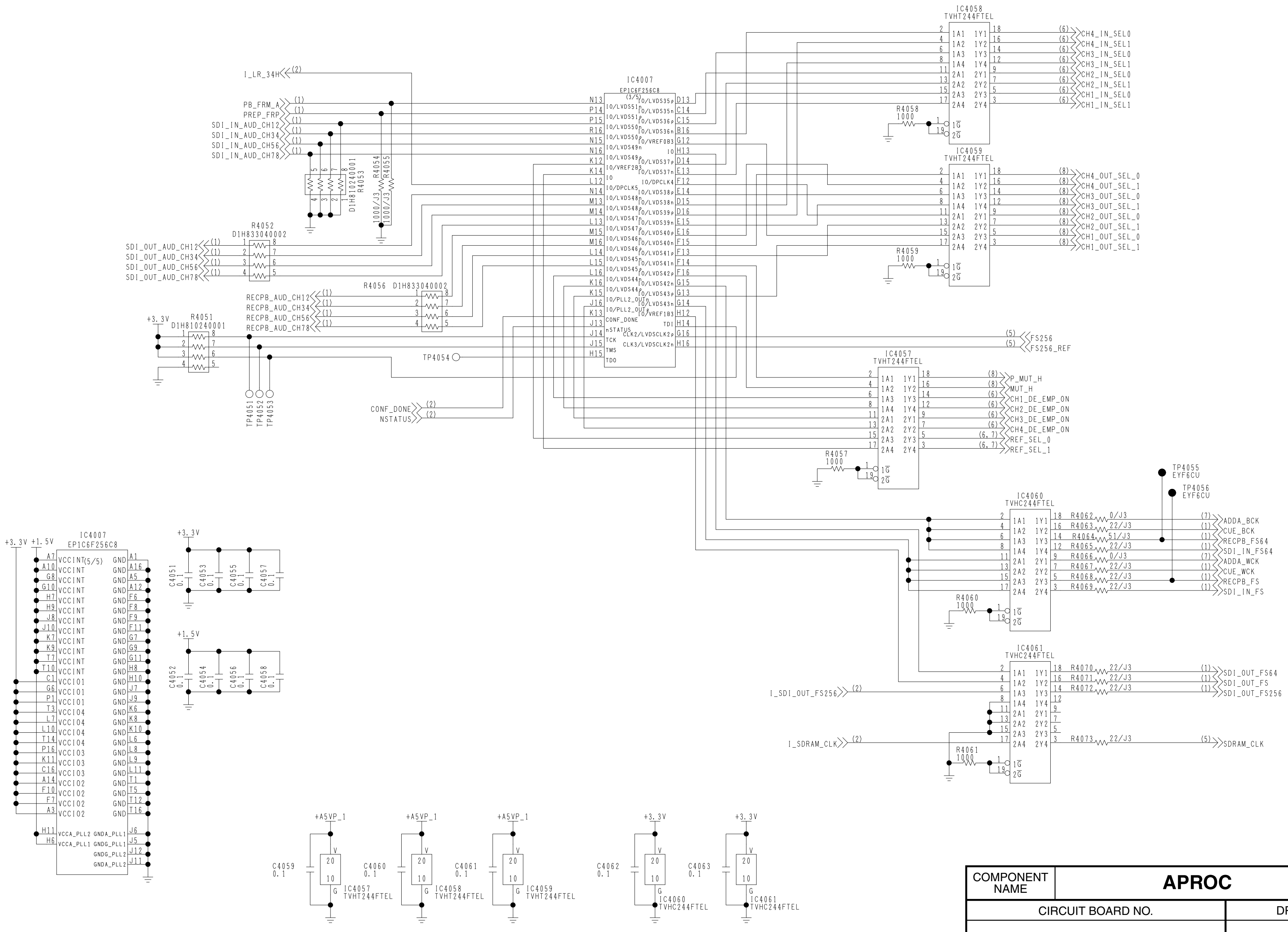
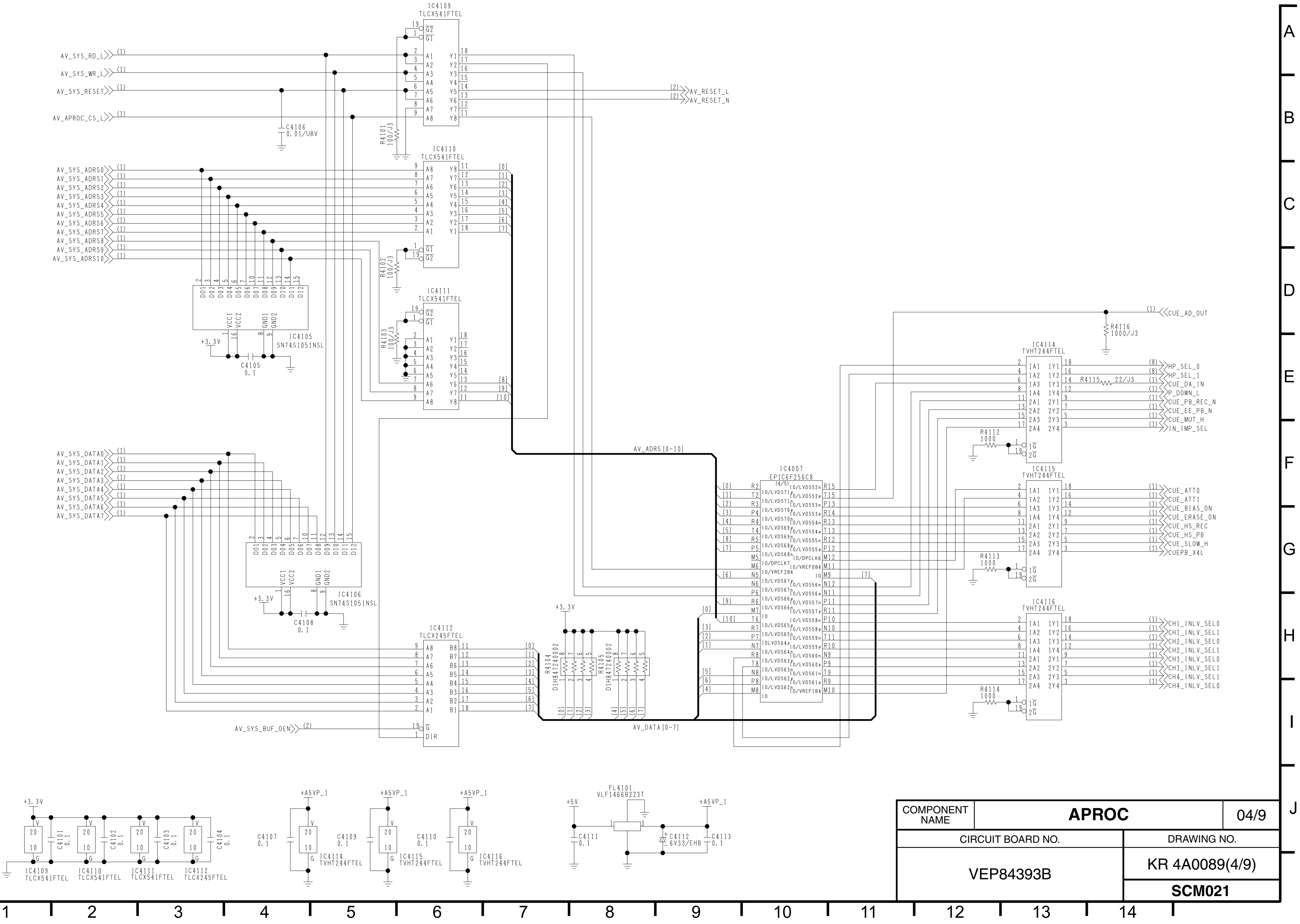
COMPONENT NAME	**APROC**	02/9
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84393B	KR 4A0089(2/9) **SCM019**	


IC4007
EP1C6F256C8
IC4058
TVHT244FTEL
IC4059
TVHT244FTEL
IC4057
TVHT244FTEL
IC4060
TVHC244FTEL
IC4061
TVHC244FTEL
I_LR_34H
PB_FRM_A
PREP_FRP
SDI_IN_AUD_CH12
SDI_IN_AUD_CH34
SDI_IN_AUD_CH56
SDI_IN_AUD_CH78
SDI_OUT_AUD_CH12
SDI_OUT_AUD_CH34
SDI_OUT_AUD_CH56
SDI_OUT_AUD_CH78
RECPB_AUD_CH12
RECPB_AUD_CH34
RECPB_AUD_CH56
RECPB_AUD_CH78
CH4_IN_SEL0
CH4_IN_SEL1
CH3_IN_SEL0
CH3_IN_SEL1
CH2_IN_SEL0
CH2_IN_SEL1
CH1_IN_SEL0
CH1_IN_SEL1
CH4_OUT_SEL_0
CH4_OUT_SEL_1
CH3_OUT_SEL_0
CH3_OUT_SEL_1
CH2_OUT_SEL_0
CH2_OUT_SEL_1
CH1_OUT_SEL_0
CH1_OUT_SEL_1
FS256
FS256_REF
P_MUT_H
MUT_H
CH1_DE_EMP_ON
CH2_DE_EMP_ON
CH3_DE_EMP_ON
CH4_DE_EMP_ON
REF_SEL_0
REF_SEL_1
CONF_DONE
NSTATUS
TP4051
TP4052
TP4053
TP4054
TP4055
TP4056
EYF6CU
ADDA_BCK
CUE_BCK
RECPB_FS64
SDI_IN_FS64
ADDA_WCK
CUE_WCK
RECPB_FS
SDI_IN_FS
SDI_OUT_FS64
SDI_OUT_FS
SDI_OUT_FS256
I_SDI_OUT_FS256
I_SDRAM_CLK
SDRAM_CLK
R4051 D1H810240001
R4052 D1H833040002
R4053 D1H810240001
R4054 1000/J3
R4055 1000/J3
R4056 D1H833040002
R4057 1000
R4058 1000
R4059 1000
R4060 1000
R4061 1000
C4051 0.1
C4052 0.1
C4053 0.1
C4054 0.1
C4055 0.1
C4056 0.1
C4057 0.1
C4058 0.1
C4059 0.1
C4060 0.1
C4061 0.1
C4062 0.1
C4063 0.1
+3.3V
+1.5V
+A5VP_1

COMPONENT NAME	**APROC**	03/9
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84393B	KR 4A0089(3/9)	
	SCM020	


IC4109
TLCX541FTEL
AV_SYS_RD_L
AV_SYS_WR_L
AV_SYS_RESET
AV_APROC_CS_L
C4106
0.01/UBV
R4101
100/J3
AV_RESET_L
AV_RESET_N
IC4110
TLCX541FTEL
AV_SYS_ADRS0
AV_SYS_ADRS1
AV_SYS_ADRS2
AV_SYS_ADRS3
AV_SYS_ADRS4
AV_SYS_ADRS5
AV_SYS_ADRS6
AV_SYS_ADRS7
AV_SYS_ADRS8
AV_SYS_ADRS9
AV_SYS_ADRS10
R4102
100/J3
IC4105
SN74S1051NSL
C4105
0.1
+3.3V
IC4111
TLCX541FTEL
R4103
100/J3
AV_ADRS[0-10]
AV_SYS_DATA0
AV_SYS_DATA1
AV_SYS_DATA2
AV_SYS_DATA3
AV_SYS_DATA4
AV_SYS_DATA5
AV_SYS_DATA6
AV_SYS_DATA7
IC4106
SN74S1051NSL
C4108
0.1
IC4112
TLCX245FTEL
AV_SYS_BUF_OEN
R4104
D1H847240002
R4105
D1H847240002
AV_DATA[0-7]
IC4007
EP1C6F256C8
(4/5)
CUE_AD_OUT
R4116
1000/J3
IC4114
TVHT244FTEL
HP_SEL_0
HP_SEL_1
R4115 22/J3
CUE_DA_IN
P_DOWN_L
CUE_PB_REC_N
CUE_EE_PB_N
CUE_MUT_H
IN_IMP_SEL
R4112
1000
IC4115
TVHT244FTEL
CUE_ATT0
CUE_ATT1
CUE_BIAS_ON
CUE_ERASE_ON
CUE_HS_REC
CUE_HS_PB
CUE_SLOW_H
CUEPB_X4L
R4113
1000
IC4116
TVHT244FTEL
CH1_INLV_SEL0
CH1_INLV_SEL1
CH2_INLV_SEL0
CH2_INLV_SEL1
CH3_INLV_SEL0
CH3_INLV_SEL1
CH4_INLV_SEL1
CH4_INLV_SEL0
R4114
1000
C4101 0.1
C4102 0.1
C4103 0.1
C4104 0.1
IC4109 TLCX541FTEL
IC4110 TLCX541FTEL
IC4111 TLCX541FTEL
IC4112 TLCX245FTEL
+A5VP_1
C4107 0.1
IC4114 TVHT244FTEL
C4109 0.1
IC4115 TVHT244FTEL
C4110 0.1
IC4116 TVHT244FTEL
+5V
FL4101
VLF1466B223T
C4111 0.1
C4112 6V33/EHB
C4113 0.1
A
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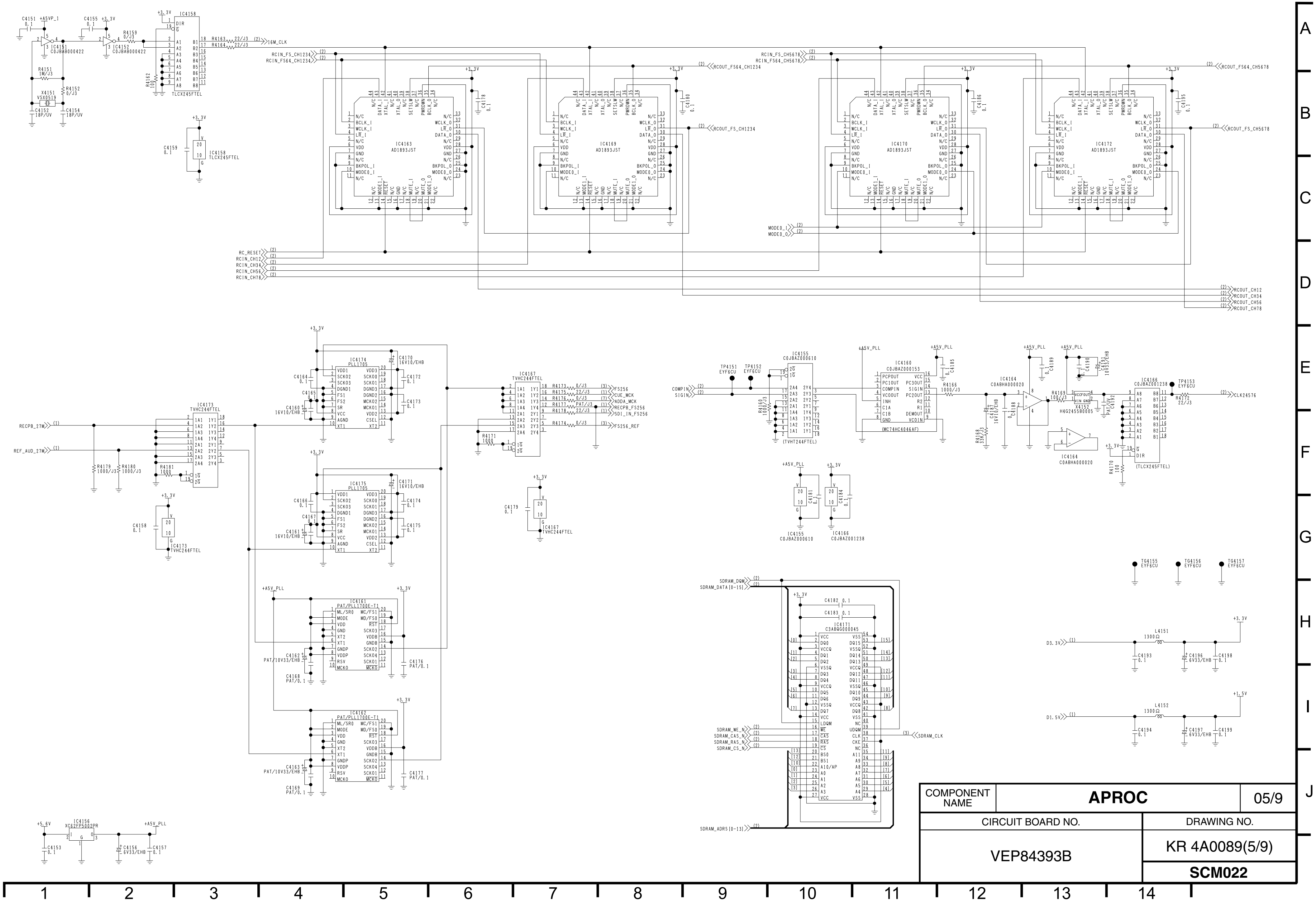
COMPONENT NAME	**APROC**	04/9
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84393B	KR 4A0089(4/9) **SCM021**	


IC4151 C0JBAB000422
IC4152 C0JBAB000422
X4151 VSX0519
IC4158 TLCX245FTEL
16M_CLK
RCIN_FS_CH1234
RCIN_FS64_CH1234
RCIN_FS_CH5678
RCIN_FS64_CH5678
RCOUT_FS64_CH1234
RCOUT_FS_CH1234
RCOUT_FS64_CH5678
RCOUT_FS_CH5678
IC4163 AD1893JST
IC4169 AD1893JST
IC4170 AD1893JST
IC4172 AD1893JST
RC_RESET
RCIN_CH12
RCIN_CH34
RCIN_CH56
RCIN_CH78
MODE0_1
MODE0_0
RCOUT_CH12
RCOUT_CH34
RCOUT_CH56
RCOUT_CH78
RECPB_27M
REF_AUD_27M
IC4173 TVHC244FTEL
IC4174 PLL1705
IC4175 PLL1705
IC4167 TVHC244FTEL
FS256
CUE_MCK
ADDA_MCK
RECPB_FS256
SDI_IN_FS256
FS256_REF
IC4161 PAT/PLL1700E-T1
IC4162 PAT/PLL1700E-T1
IC4156 XC62FP5002PR
+5.6V
+A5V_PLL
+3.3V
COMPIN
SIGIN
TP4151 EYF6CU
TP4152 EYF6CU
IC4155 C0JBAZ000610
IC4160 C0JBAZ000153
(MC74HC4046AF)
IC4164 C0ABHA000020
X4152 H4G2455B0005
IC4166 C0JBAZ001238
TP4153 EYF6CU
CLK24576
(TLCX245FTEL)
TG4155 EYF6CU
TG4156 EYF6CU
TG4157 EYF6CU
SDRAM_DQM
SDRAM_DATA[0-15]
IC4171 C3ABQG000045
SDRAM_WE_N
SDRAM_CAS_N
SDRAM_RAS_N
SDRAM_CS_N
SDRAM_CLK
SDRAM_ADRS[0-13]
D3.3V
D1.5V
L4151 1300Ω
L4152 1300Ω
+1.5V
A
B
C
D
E
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G
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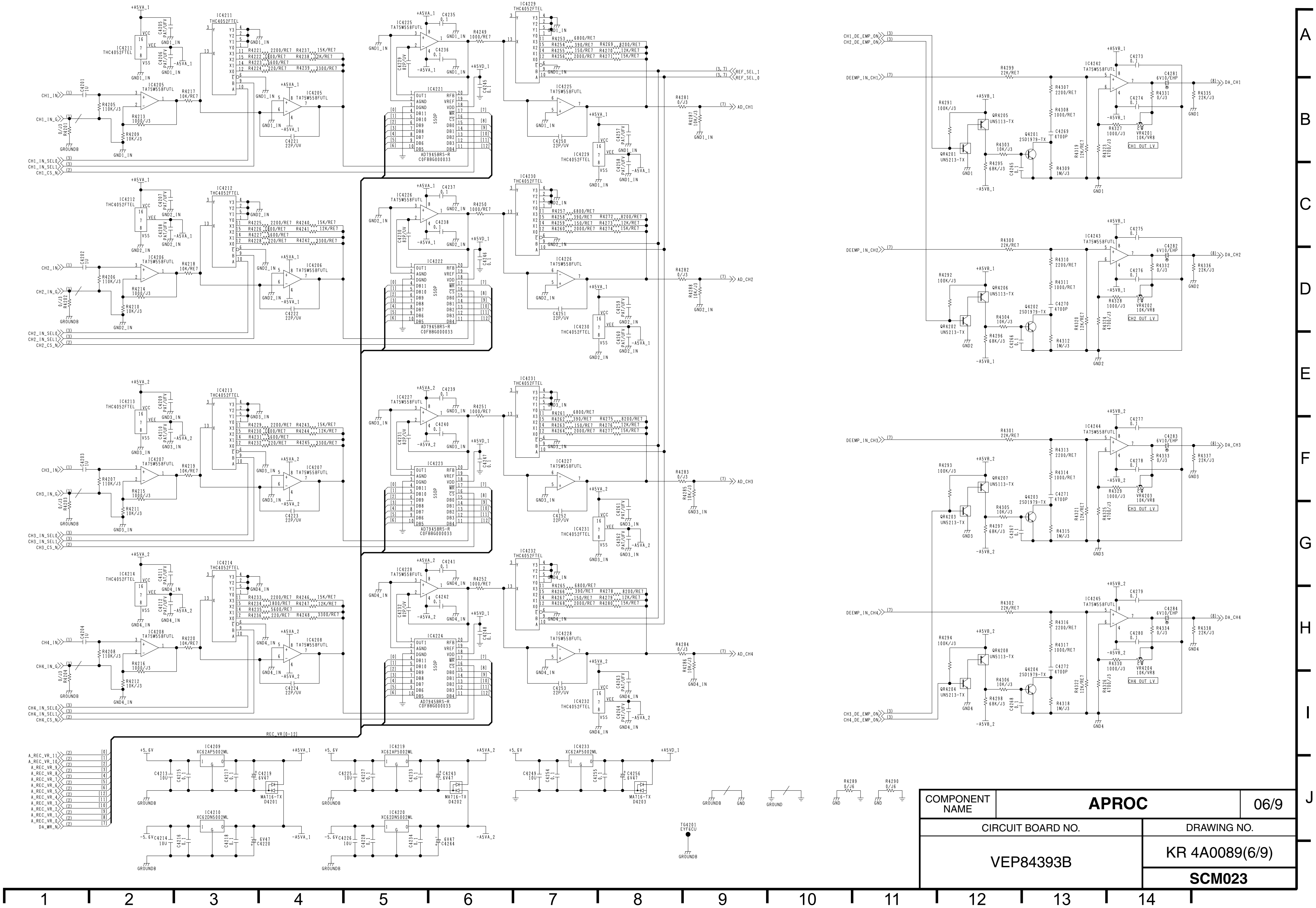
COMPONENT NAME	APROC	05/9
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84393B	KR 4A0089(5/9) SCM022	


CH1_IN
CH1_IN_G
CH1_IN_SEL0
CH1_IN_SEL1
CH1_CS_N
CH2_IN
CH2_IN_G
CH2_IN_SEL0
CH2_IN_SEL1
CH2_CS_N
CH3_IN
CH3_IN_G
CH3_IN_SEL0
CH3_IN_SEL1
CH3_CS_N
CH4_IN
CH4_IN_G
CH4_IN_SEL0
CH4_IN_SEL1
CH4_CS_N
IC4211 THC4052FTEL
IC4212 THC4052FTEL
IC4213 THC4052FTEL
IC4214 THC4052FTEL
IC4205 TA75W558FUTL
IC4206 TA75W558FUTL
IC4207 TA75W558FUTL
IC4208 TA75W558FUTL
IC4225 TA75W558FUTL
IC4226 TA75W558FUTL
IC4227 TA75W558FUTL
IC4228 TA75W558FUTL
IC4221 AD7945BRS-R C0FBBG000033
IC4222 AD7945BRS-R C0FBBG000033
IC4223 AD7945BRS-R C0FBBG000033
IC4224 AD7945BRS-R C0FBBG000033
IC4229 THC4052FTEL
IC4230 THC4052FTEL
IC4231 THC4052FTEL
IC4232 THC4052FTEL
REF_SEL_1
REF_SEL_0
AD_CH1
AD_CH2
AD_CH3
AD_CH4
REC_VR[0-12]
A_REC_VR_11
A_REC_VR_10
A_REC_VR_9
A_REC_VR_8
A_REC_VR_7
A_REC_VR_6
A_REC_VR_5
A_REC_VR_4
A_REC_VR_3
A_REC_VR_2
A_REC_VR_1
A_REC_VR_0
DA_WR_N
IC4209 XC62AP5002ML
IC4219 XC62AP5002ML
IC4233 XC62AP5002ML
IC4210 XC62DN5002ML
IC4220 XC62DN5002ML
D4201 MA716-TX
D4202 MA716-TX
D4203 MA716-TX
TG4201 EYF6CU
GROUNDB
CH1_DE_EMP_ON
CH2_DE_EMP_ON
CH3_DE_EMP_ON
CH4_DE_EMP_ON
DEEMP_IN_CH1
DEEMP_IN_CH2
DEEMP_IN_CH3
DEEMP_IN_CH4
IC4242 TA75W558FUTL
IC4243 TA75W558FUTL
IC4244 TA75W558FUTL
IC4245 TA75W558FUTL
DA_CH1
DA_CH2
DA_CH3
DA_CH4
CH1 OUT LV
CH2 OUT LV
CH3 OUT LV
CH4 OUT LV
QR4201 UN5213-TX
QR4205 UN5113-TX
Q4201 2SD1979-TX
VR4201 10K/VR8
A
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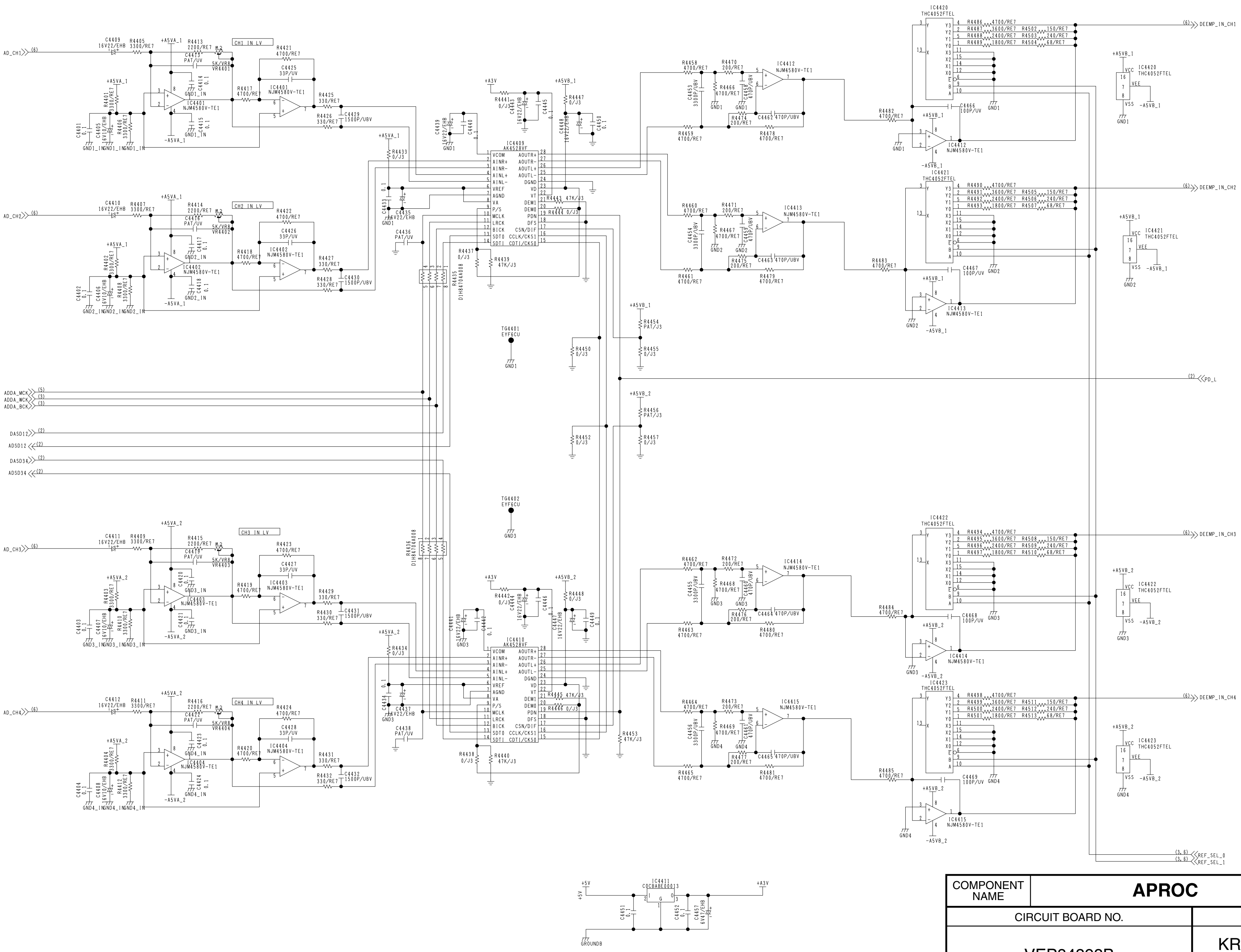
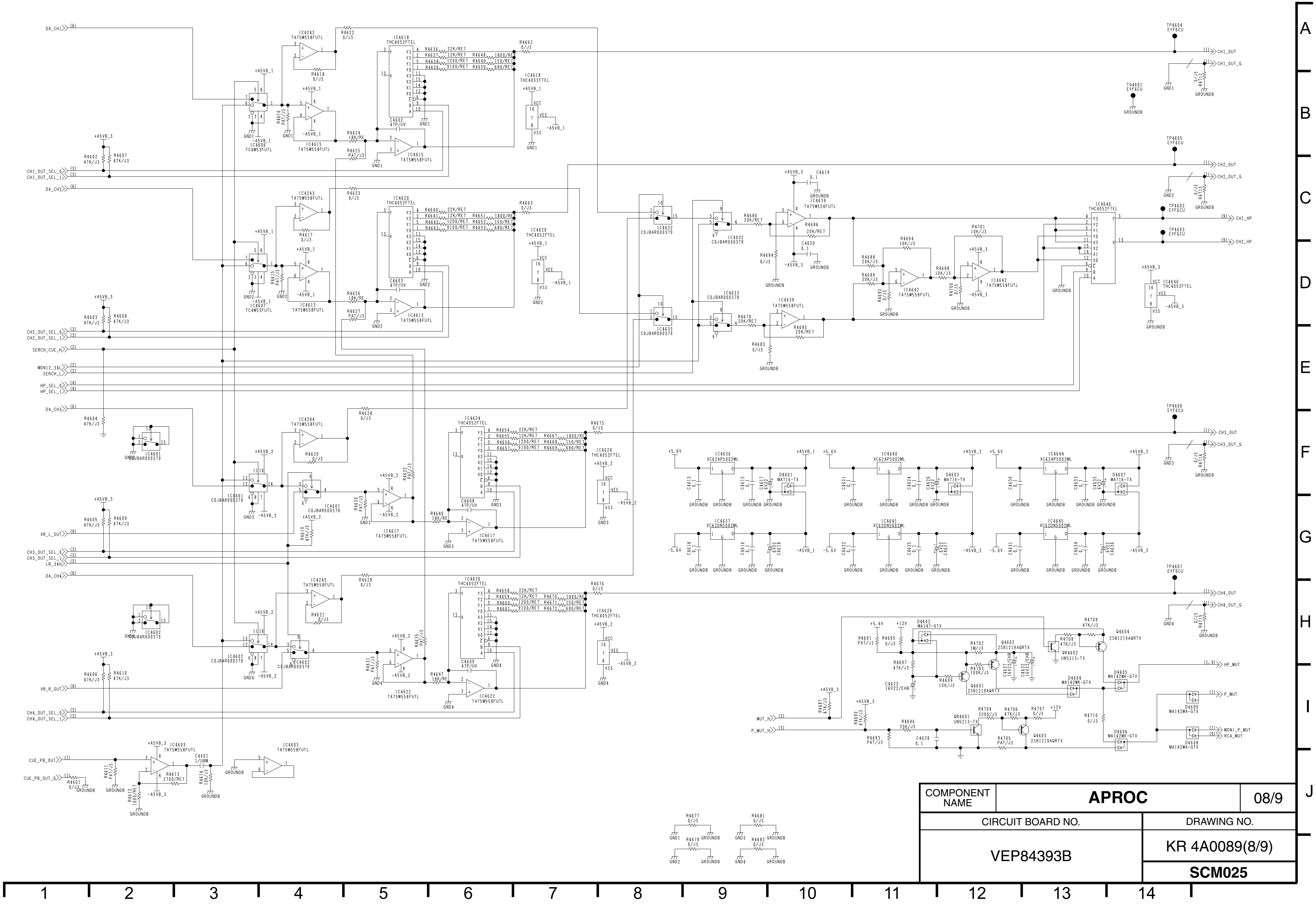
COMPONENT NAME	APROC	06/9
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84393B	KR 4A0089(6/9)	
	SCM023	


AD_CH1
AD_CH2
AD_CH3
AD_CH4
CH1 IN LV
CH2 IN LV
CH3 IN LV
CH4 IN LV
ADDA_MCK
ADDA_WCK
ADDA_BCK
DASD12
ADSD12
DASD34
ADSD34
PD_L
DEEMP_IN_CH1
DEEMP_IN_CH2
DEEMP_IN_CH3
DEEMP_IN_CH4
REF_SEL_0
REF_SEL_1
IC4409 AK4528VF
IC4410 AK4528VF
IC4401 NJM4580V-TE1
IC4402 NJM4580V-TE1
IC4403 NJM4580V-TE1
IC4404 NJM4580V-TE1
IC4412 NJM4580V-TE1
IC4413 NJM4580V-TE1
IC4414 NJM4580V-TE1
IC4415 NJM4580V-TE1
IC4420 THC4052FTEL
IC4421 THC4052FTEL
IC4422 THC4052FTEL
IC4423 THC4052FTEL
IC4411 COCBA8E00013
TG4401 EYF6CU
TG4402 EYF6CU
+A5VA_1
-A5VA_1
+A5VA_2
-A5VA_2
+A5VB_1
-A5VB_1
+A5VB_2
-A5VB_2
+A3V
+5V
GND1
GND2
GND3
GND4
GROUNDB

COMPONENT NAME	APROC	07/9
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84393B	KR 4A0089(7/9)	
	SCM024	


DA_CH1
DA_CH2
DA_CH3
DA_CH4
CH1_OUT_SEL_0
CH1_OUT_SEL_1
CH2_OUT_SEL_0
CH2_OUT_SEL_1
SERCH_CUE_H
MON12_34L
SERCH_L
HP_SEL_0
HP_SEL_1
VR_L_OUT
CH3_OUT_SEL_0
CH3_OUT_SEL_1
LR_34H
VR_R_OUT
CH4_OUT_SEL_0
CH4_OUT_SEL_1
CUE_PB_OUT
CUE_PB_OUT_G
CH1_OUT
CH1_OUT_G
CH2_OUT
CH2_OUT_G
CH1_HP
CH2_HP
CH3_OUT
CH3_OUT_G
CH4_OUT
CH4_OUT_G
HP_MUT
P_MUT
MONI_P_MUT
RCA_MUT
MUT_H
P_MUT_H
IC4242 TA75W558FUTL
IC4243 TA75W558FUTL
IC4244 TA75W558FUTL
IC4245 TA75W558FUTL
IC4618 THC4052FTEL
IC4620 THC4052FTEL
IC4624 THC4052FTEL
IC4626 THC4052FTEL
IC4646 THC4052FTEL
IC4606 TC4W53FUTL
IC4607 TC4W53FUTL
IC4601 C0JBAR000379
IC4602 C0JBAR000379
IC4632 C0JBAR000379
IC4633 C0JBAR000379
IC4636 XC62AP5002ML
IC4637 XC62DN5002ML
IC4640 XC62AP5002ML
IC4641 XC62DN5002ML
IC4644 XC62AP5002ML
IC4645 XC62DN5002ML
D4601 MA716-TX
D4603 MA716-TX
D4607 MA716-TX
D4602 MA147-GTX
D4604 MA142WK-GTX
D4605 MA142WK-GTX
D4606 MA142WK-GTX
D4608 MA142WA-GTX
D4609 MA142WA-GTX
Q4601 2SB1219AQRTX
Q4602 2SB1219AQRTX
Q4603 2SB1219AQRTX
Q4604 2SB1219AQRTX
QR4601 UN5213-TX
QR4602 UN5213-TX
TP4602 EYF6CU
TP4603 EYF6CU
TP4604 EYF6CU
TP4605 EYF6CU
TP4606 EYF6CU
TP4607 EYF6CU
TG4601 EYF6CU
+A5VB_1
+A5VB_2
+A5VB_3
-A5VB_1
-A5VB_2
-A5VB_3
+5.6V
-5.6V
+12V
GND1
GND2
GND3
GND4
GROUNDB
A
B
C
D
E
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I
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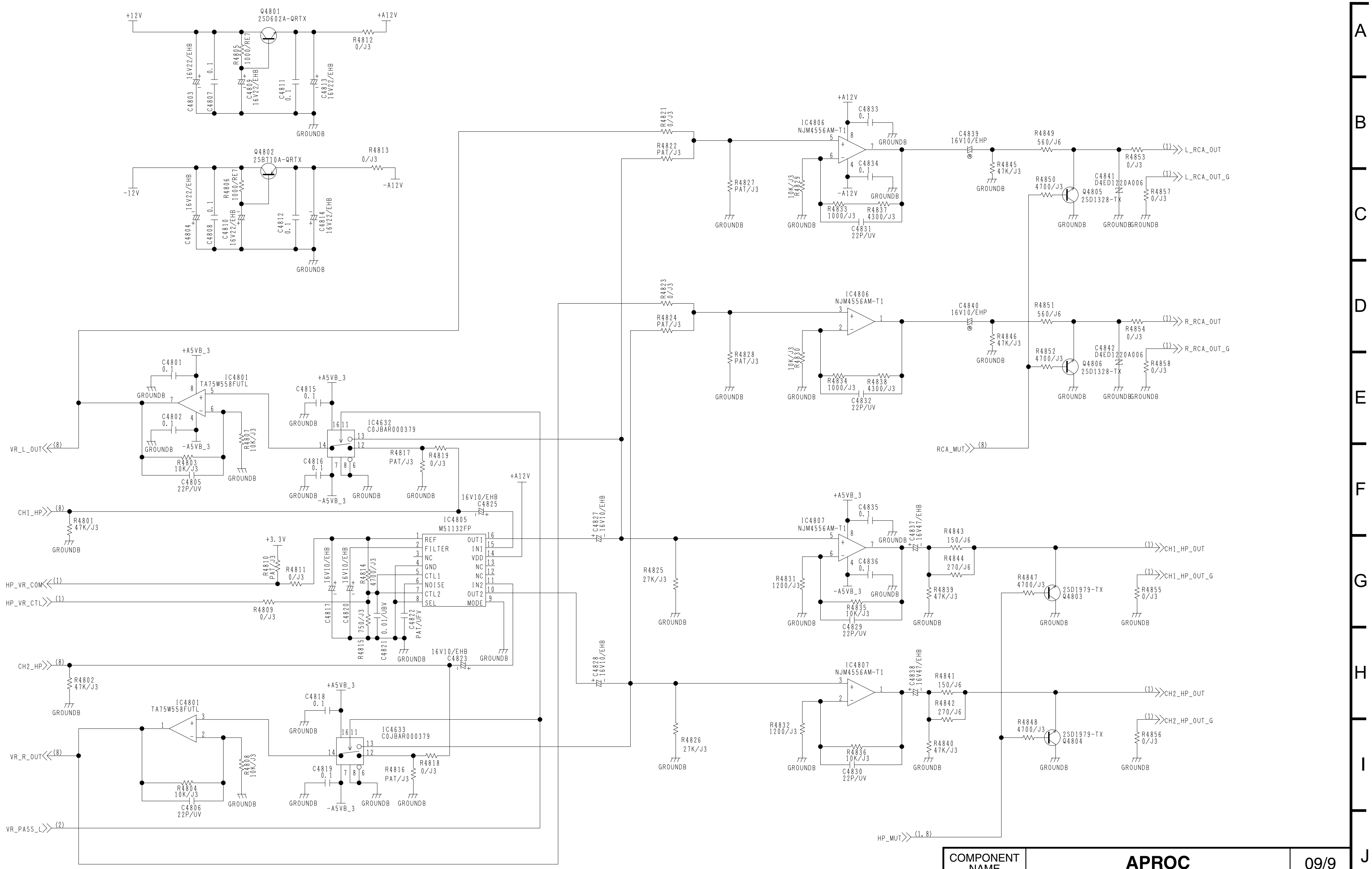
COMPONENT NAME	APROC	08/9
CIRCUIT BOARD NO.		DRAWING NO.
VEP84393B		KR 4A0089(8/9)
		SCM025


+12V
Q4801
2SD602A-QRTX
+A12V
R4812
0/J3
C4803
16V22/EHB
C4807
0.1
R4805
1000/RE7
C4809
16V22/EHB
C4811
0.1
C4813
16V22/EHB
GROUNDB
-12V
Q4802
2SB710A-QRTX
R4813
0/J3
-A12V
C4804
16V22/EHB
C4808
0.1
R4806
1000/RE7
C4810
16V22/EHB
C4812
0.1
C4814
16V22/EHB
R4821
0/J3
R4822
PAT/J3
R4827
PAT/J3
IC4806
NJM4556AM-T1
C4833
0.1
C4834
0.1
R4829
10K/J3
R4833
1000/J3
R4837
4300/J3
C4831
22P/UV
C4839
16V10/EHP
R4845
47K/J3
R4849
560/J6
R4850
4700/J3
Q4805
2SD1328-TX
C4841
D4ED1220A006
R4853
0/J3
L_RCA_OUT
L_RCA_OUT_G
R4857
0/J3
R4823
0/J3
R4824
PAT/J3
R4828
PAT/J3
R4830
10K/J3
R4834
1000/J3
R4838
4300/J3
C4832
22P/UV
C4840
16V10/EHP
R4846
47K/J3
R4851
560/J6
R4852
4700/J3
Q4806
2SD1328-TX
C4842
D4ED1220A006
R4854
0/J3
R_RCA_OUT
R_RCA_OUT_G
R4858
0/J3
RCA_MUT
+A5VB_3
C4801
0.1
IC4801
TA75W558FUTL
C4802
0.1
-A5VB_3
R4807
10K/J3
R4803
10K/J3
C4805
22P/UV
VR_L_OUT
C4815
0.1
IC4632
C0JBAR000379
C4816
0.1
R4817
PAT/J3
R4819
0/J3
CH1_HP
R4801
47K/J3
16V10/EHB
C4825
IC4805
M51132FP
REF
FILTER
NC
GND
CTL1
NOISE
CTL2
SEL
OUT1
IN1
VDD
NC
NC
IN2
OUT2
MODE
+3.3V
R4810
PAT/J3
R4811
0/J3
HP_VR_COM
HP_VR_CTL
R4809
0/J3
C4817
16V10/EHB
C4820
16V10/EHB
R4814
4700/J3
R4815
750/J3
C4821
0.01/UBV
C4822
PAT/UFV
C4827
16V10/EHB
C4828
16V10/EHB
CH2_HP
R4802
47K/J3
C4823
16V10/EHB
VR_R_OUT
R4808
10K/J3
R4804
10K/J3
C4806
22P/UV
C4818
0.1
IC4633
C0JBAR000379
C4819
0.1
R4816
PAT/J3
R4818
0/J3
VR_PASS_L
R4825
27K/J3
R4826
27K/J3
IC4807
NJM4556AM-T1
C4835
0.1
C4836
0.1
C4837
16V47/EHB
R4831
1200/J3
R4835
10K/J3
C4829
22P/UV
R4843
150/J6
R4844
270/J6
R4839
47K/J3
R4847
4700/J3
2SD1979-TX
Q4803
CH1_HP_OUT
CH1_HP_OUT_G
R4855
0/J3
C4838
16V47/EHB
R4832
1200/J3
R4836
10K/J3
C4830
22P/UV
R4841
150/J6
R4842
270/J6
R4840
47K/J3
R4848
4700/J3
2SD1979-TX
Q4804
CH2_HP_OUT
CH2_HP_OUT_G
R4856
0/J3
HP_MUT
A
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C
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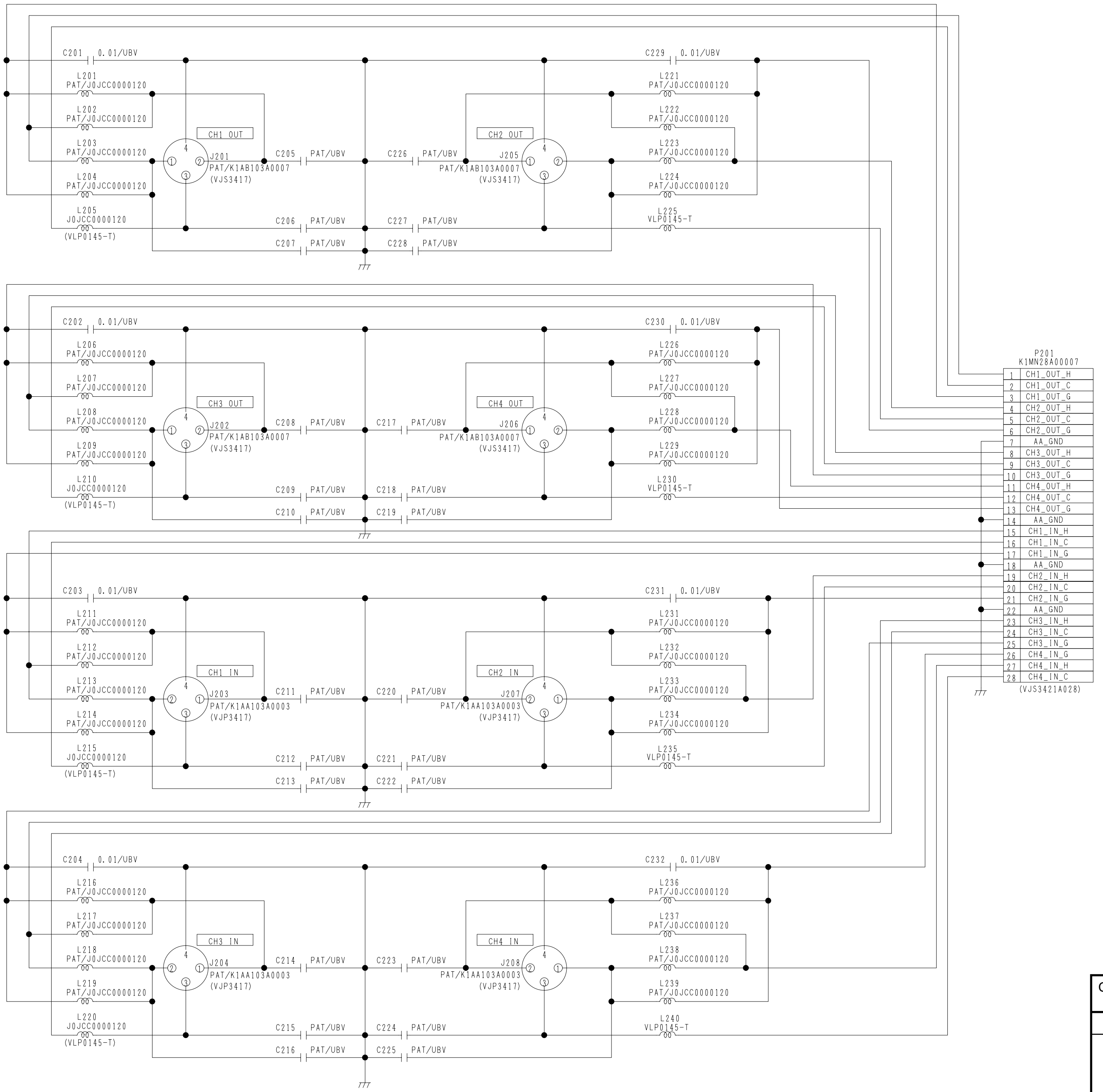
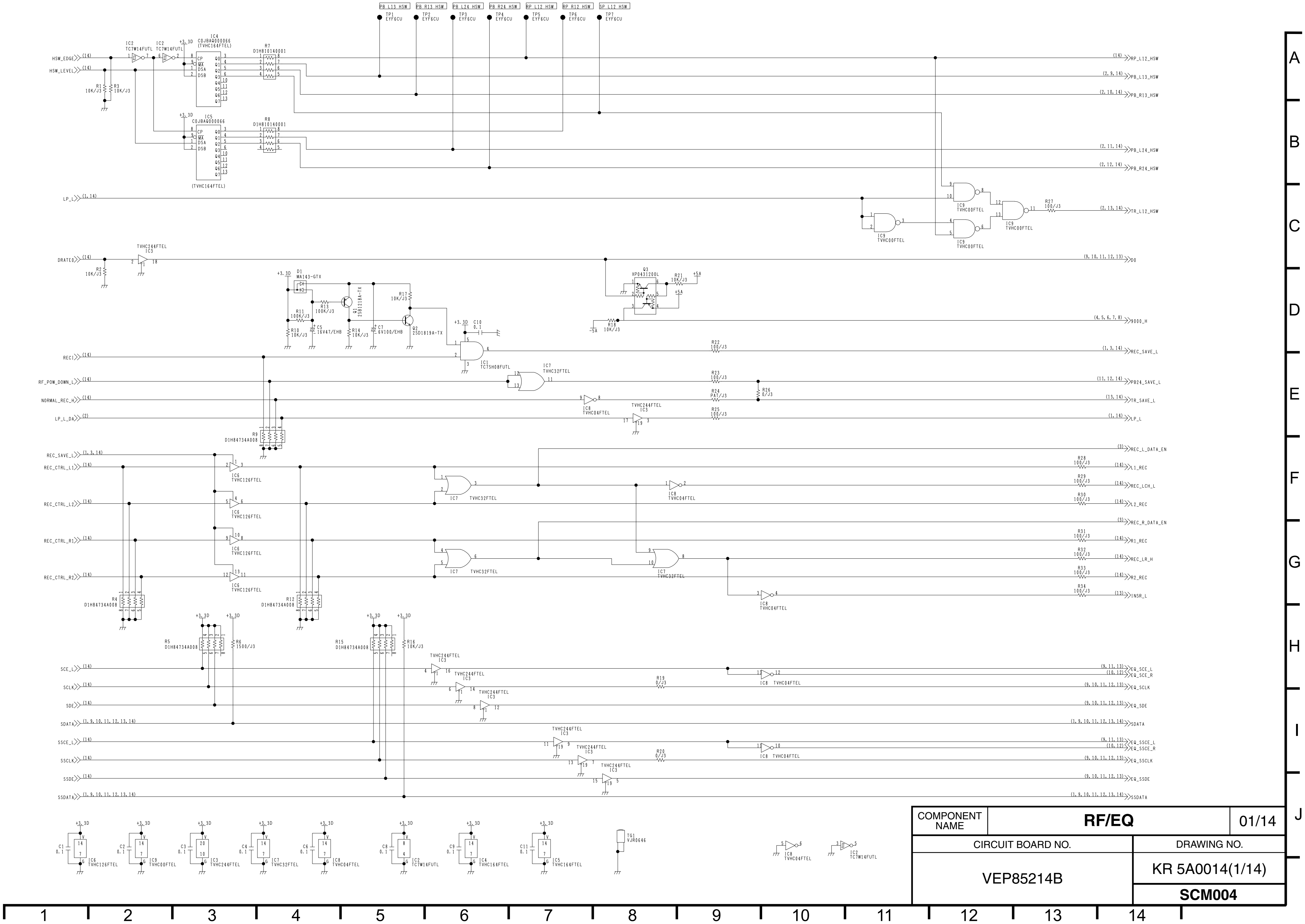
COMPONENT NAME	APROC		09/9
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84393B		KR 4A0089(9/9)	
		SCM026	


C201 0.01/UBV
L201 PAT/J0JCC0000120
L202 PAT/J0JCC0000120
L203 PAT/J0JCC0000120
L204 PAT/J0JCC0000120
L205 J0JCC0000120 (VLP0145-T)
CH1 OUT
J201 PAT/K1AB103A0007 (VJS3417)
C205 PAT/UBV
C226 PAT/UBV
C206 PAT/UBV
C227 PAT/UBV
C207 PAT/UBV
C228 PAT/UBV
C229 0.01/UBV
L221 PAT/J0JCC0000120
L222 PAT/J0JCC0000120
L223 PAT/J0JCC0000120
L224 PAT/J0JCC0000120
L225 VLP0145-T
CH2 OUT
J205 PAT/K1AB103A0007 (VJS3417)
C202 0.01/UBV
L206 PAT/J0JCC0000120
L207 PAT/J0JCC0000120
L208 PAT/J0JCC0000120
L209 PAT/J0JCC0000120
L210 J0JCC0000120 (VLP0145-T)
CH3 OUT
J202 PAT/K1AB103A0007 (VJS3417)
C208 PAT/UBV
C217 PAT/UBV
C209 PAT/UBV
C218 PAT/UBV
C210 PAT/UBV
C219 PAT/UBV
C230 0.01/UBV
L226 PAT/J0JCC0000120
L227 PAT/J0JCC0000120
L228 PAT/J0JCC0000120
L229 PAT/J0JCC0000120
L230 VLP0145-T
CH4 OUT
J206 PAT/K1AB103A0007 (VJS3417)
C203 0.01/UBV
L211 PAT/J0JCC0000120
L212 PAT/J0JCC0000120
L213 PAT/J0JCC0000120
L214 PAT/J0JCC0000120
L215 J0JCC0000120 (VLP0145-T)
CH1 IN
J203 PAT/K1AA103A0003 (VJP3417)
C211 PAT/UBV
C220 PAT/UBV
C212 PAT/UBV
C221 PAT/UBV
C213 PAT/UBV
C222 PAT/UBV
C231 0.01/UBV
L231 PAT/J0JCC0000120
L232 PAT/J0JCC0000120
L233 PAT/J0JCC0000120
L234 PAT/J0JCC0000120
L235 VLP0145-T
CH2 IN
J207 PAT/K1AA103A0003 (VJP3417)
C204 0.01/UBV
L216 PAT/J0JCC0000120
L217 PAT/J0JCC0000120
L218 PAT/J0JCC0000120
L219 PAT/J0JCC0000120
L220 J0JCC0000120 (VLP0145-T)
CH3 IN
J204 PAT/K1AA103A0003 (VJP3417)
C214 PAT/UBV
C223 PAT/UBV
C215 PAT/UBV
C224 PAT/UBV
C216 PAT/UBV
C225 PAT/UBV
C232 0.01/UBV
L236 PAT/J0JCC0000120
L237 PAT/J0JCC0000120
L238 PAT/J0JCC0000120
L239 PAT/J0JCC0000120
L240 VLP0145-T
CH4 IN
J208 PAT/K1AA103A0003 (VJP3417)
1
2
3
4
P201
K1MN28A00007
1 CH1_OUT_H
2 CH1_OUT_C
3 CH1_OUT_G
4 CH2_OUT_H
5 CH2_OUT_C
6 CH2_OUT_G
7 AA_GND
8 CH3_OUT_H
9 CH3_OUT_C
10 CH3_OUT_G
11 CH4_OUT_H
12 CH4_OUT_C
13 CH4_OUT_G
14 AA_GND
15 CH1_IN_H
16 CH1_IN_C
17 CH1_IN_G
18 AA_GND
19 CH2_IN_H
20 CH2_IN_C
21 CH2_IN_G
22 AA_GND
23 CH3_IN_H
24 CH3_IN_C
25 CH3_IN_G
26 CH4_IN_G
27 CH4_IN_H
28 CH4_IN_C
(VJS3421A028)

REF NO.	-T		remark
L201	PAT		CH1_OUT
L202	VLP0145-T		
L203	PAT		
L204	VLP0145-T		
L206	PAT		CH3_OUT
L207	VLP0145-T		
L208	PAT		
L209	VLP0145-T		
L211	VLP0145-T		CH1_IN
L212	PAT		
L213	VLP0145-T		
L214	PAT		
L216	VLP0145-T		CH3_IN
L217	PAT		
L218	VLP0145-T		
L219	PAT		
L221	VLP0145-T		CH2_OUT
L222	PAT		
L223	VLP0145-T		
L224	PAT		
L226	VLP0145-T		CH4_OUT
L227	PAT		
L228	VLP0145-T		
L229	PAT		
L231	PAT		CH2_IN
L232	VLP0145-T		
L233	PAT		
L234	VLP0145-T		
L236	PAT		CH4_IN
L237	VLP0145-T		
L238	PAT		
L239	VLP0145-T		
J201	VJS3417		CH1_OUT
J202	VJS3417		CH3_OUT
J203	VJP3417		CH1_IN
J204	VJP3417		CH3_IN
J205	VJS3417		CH2_OUT
J206	VJS3417		CH4_OUT
J207	VJP3417		CH2_IN
J208	VJP3417		CH4_IN

COMPONENT NAME	**A_JACK**	1/1
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84394A	KR 4A0004(1/1)	
	SCM103	


PB_L13_HSW
PB_R13_HSW
PB_L24_HSW
PB_R24_HSW
RP_L12_HSW
RP_R12_HSW
SP_L12_HSW
TP1 EYF6CU
TP2 EYF6CU
TP3 EYF6CU
TP4 EYF6CU
TP5 EYF6CU
TP6 EYF6CU
TP7 EYF6CU
HSW_EDGE
HSW_LEVEL
IC2 TC7W14FUTL
IC4 C0JBAQ000066 (TVHC164FTEL)
IC5 C0JBAQ000066 (TVHC164FTEL)
R7 D1H810140001
R8 D1H810140001
R1 10K/J3
R3 10K/J3
RP_L12_HSW
PB_L13_HSW
PB_R13_HSW
PB_L24_HSW
PB_R24_HSW
LP_L
IC9 TVHC00FTEL
R27 100/J3
TR_L12_HSW
DRATED
IC3 TVHC244FTEL
R2 10K/J3
D0
D1 MA143-GTX
Q1 2SB1218A-TX
Q2 2SD1819A-TX
R11 100K/J3
R13 100K/J3
R10 10K/J3
C5 16V47/EHB
R14 10K/J3
C7 6V100/EHB
R17 10K/J3
Q3 XP0431200L
R21 10K/J3
R18 10K/J3
-5A
+5A
9000_H
C10 0.1
IC1 TC7SH08FUTL
REC
R22 100/J3
REC_SAVE_L
RF_POW_DOWN_L
IC7 TVHC32FTEL
R23 100/J3
PB24_SAVE_L
NORMAL_REC_H
IC8 TVHC04FTEL
R24 PAT/J3
R26 0/J3
TR_SAVE_L
LP_L_DA
R25 100/J3
LP_L
R9 D1H84734A008
REC_SAVE_L
REC_CTRL_L1
REC_CTRL_L2
REC_CTRL_R1
REC_CTRL_R2
IC6 TVHC126FTEL
REC_L_DATA_EN
R28 100/J3
L1_REC
R29 100/J3
REC_LCH_L
R30 100/J3
L2_REC
REC_R_DATA_EN
R31 100/J3
R1_REC
R32 100/J3
REC_LR_H
R33 100/J3
R2_REC
R34 100/J3
INSR_L
R4 D1H84734A008
R12 D1H84734A008
R5 D1H84734A008
R6 1500/J3
R15 D1H84734A008
R16 10K/J3
+3.3D
SCE_L
SCLK
SDE
SDATA
SSCE_L
SSCLK
SSDE
SSDATA
R19 0/J3
R20 0/J3
EQ_SCE_L
EQ_SCE_R
EQ_SCLK
EQ_SDE
SDATA
EQ_SSCE_L
EQ_SSCE_R
EQ_SSCLK
EQ_SSDE
SSDATA
C1 0.1
C2 0.1
C3 0.1
C4 0.1
C6 0.1
C8 0.1
C9 0.1
C11 0.1
IC6 TVHC126FTEL
IC9 TVHC00FTEL
IC3 TVHC244FTEL
IC7 TVHC32FTEL
IC8 TVHC04FTEL
IC2 TC7W14FUTL
IC4 TVHC164FTEL
IC5 TVHC164FTEL
TG1 VJR0646
A
B
C
D
E
F
G
H
I
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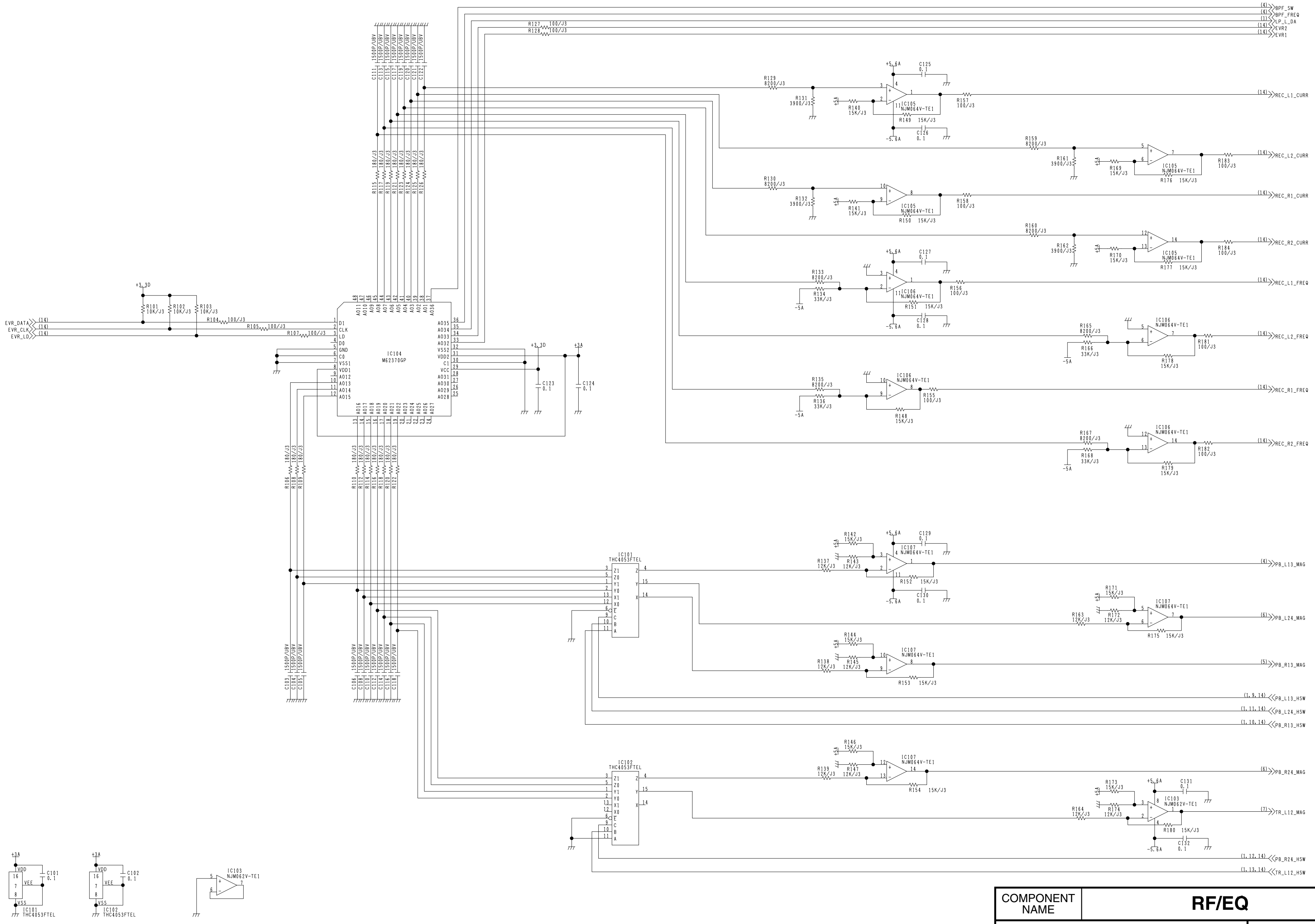
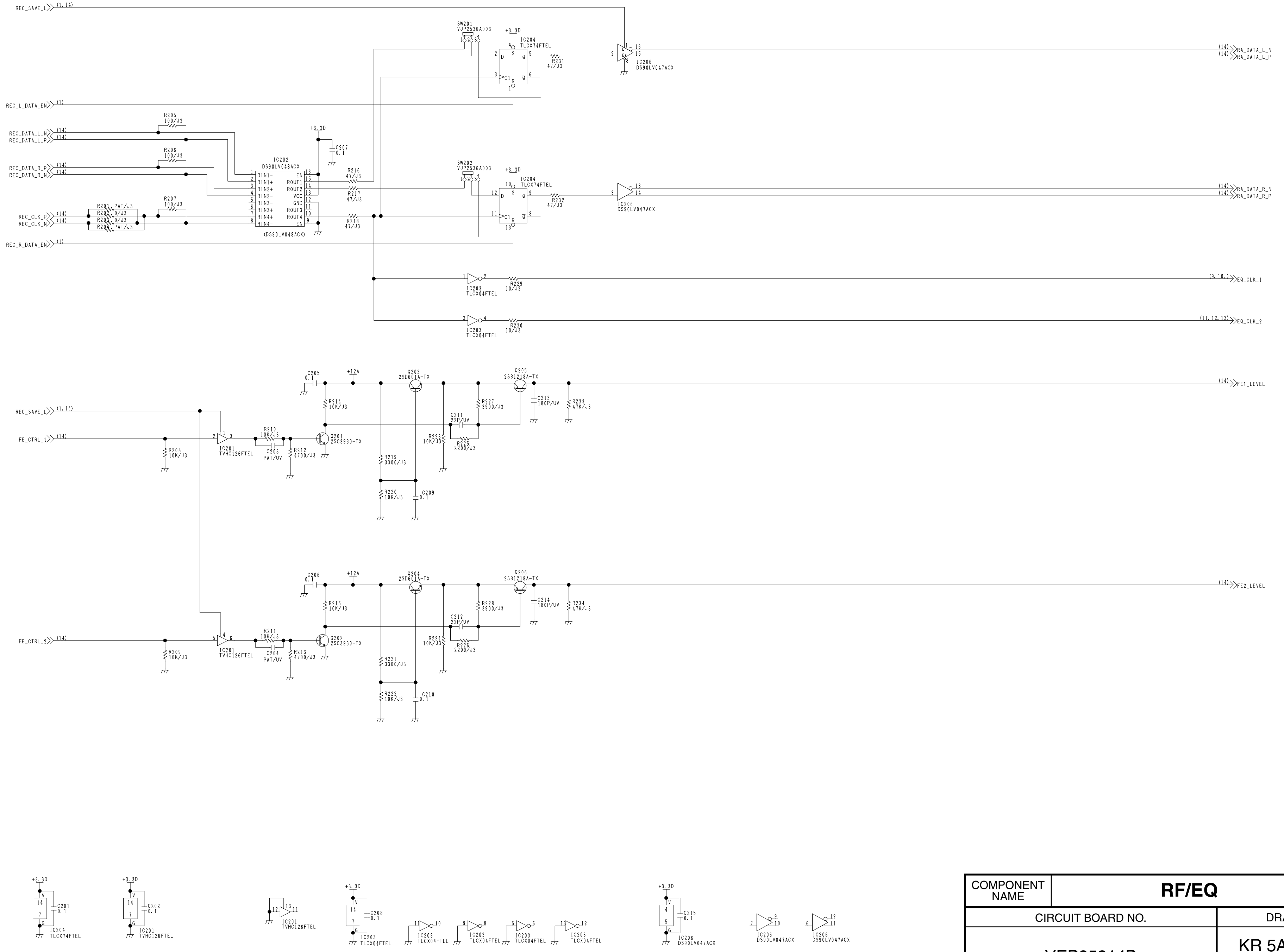
COMPONENT NAME	RF/EQ	01/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(1/14)	
	SCM004	


BPF_SW
BPF_FREQ
LP_L_DA
EVR2
EVR1
R127 100/J3
R128 100/J3
REC_L1_CURR
REC_L2_CURR
REC_R1_CURR
REC_R2_CURR
REC_L1_FREQ
REC_L2_FREQ
REC_R1_FREQ
REC_R2_FREQ
IC105 NJM064V-TE1
IC106 NJM064V-TE1
IC107 NJM064V-TE1
IC103 NJM062V-TE1
+5.6A
-5.6A
+3.3D
+3A
-5A
+5A
EVR_DATA
EVR_CLK
EVR_LD
IC104 M62370GP
D1
CLK
LD
D0
GND
C0
VSS1
VDD1
AO12
AO13
AO14
AO15
AO35
AO34
AO33
AO32
VSS2
VDD2
C1
VCC
AO31
AO30
AO29
AO28
C123 0.1
C124 0.1
IC101 THC4053FTEL
IC102 THC4053FTEL
PB_L13_MAG
PB_L24_MAG
PB_R13_MAG
PB_L13_HSW
PB_L24_HSW
PB_R13_HSW
PB_R24_MAG
TR_L12_MAG
PB_R24_HSW
TR_L12_HSW
+3A
VDD
VEE
VSS
C101 0.1
IC101 THC4053FTEL
+3A
C102 0.1
IC102 THC4053FTEL
IC103 NJM062V-TE1

COMPONENT NAME	RF/EQ	02/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(2/14)	
	SCM005	


REC_SAVE_L (1, 14)
SW201
VJP2536A003
1 2 3
+3. 3D
IC204
TLCX74FTEL
4 S
2 D
5 Q
3 C1
6 Q̄
R 1
R231
47/J3
1 E
2 E*
8
16
15
IC206
DS90LV047ACX
(14) RA_DATA_L_N
(14) RA_DATA_L_P
REC_L_DATA_EN (1)
R205
100/J3
REC_DATA_L_N (14)
REC_DATA_L_P (14)
+3. 3D
C207
0. 1
R206
100/J3
REC_DATA_R_P (14)
REC_DATA_R_N (14)
IC202
DS90LV048ACX
1 RIN1-
2 RIN1+
3 RIN2+
4 RIN2-
5 RIN3-
6 RIN3+
7 RIN4+
8 RIN4-
16 EN
15 ROUT1
14 ROUT2
13 VCC
12 GND
11 ROUT3
10 ROUT4
9 EN
(DS90LV048ACX)
R216
47/J3
R217
47/J3
R218
47/J3
R201 PAT/J3
R202 0/J3
R203 0/J3
R204 PAT/J3
R207
100/J3
REC_CLK_P (14)
REC_CLK_N (14)
REC_R_DATA_EN (1)
SW202
VJP2536A003
1 2 3
+3. 3D
IC204
TLCX74FTEL
10 S
12 D
9 Q
11 C1
8 Q̄
R 13
R232
47/J3
3
13
14
IC206
DS90LV047ACX
(14) RA_DATA_R_N
(14) RA_DATA_R_P
1 2
IC203
TLCX04FTEL
R229
10/J3
(9, 10,) EQ_CLK_1
3 4
IC203
TLCX04FTEL
R230
10/J3
(11, 12, 13) EQ_CLK_2
C205
0. 1
+12A
Q203
2SD601A-TX
Q205
2SB1218A-TX
(14) FE1_LEVEL
R214
10K/J3
R227
3900/J3
C213
180P/UV
R233
47K/J3
C211
22P/UV
REC_SAVE_L (1, 14)
FE_CTRL_1 (14)
1
2 3
IC201
TVHC126FTEL
R210
10K/J3
C203
PAT/UV
R212
4700/J3
Q201
2SC3930-TX
R223
10K/J3
R225
2200/J3
R208
10K/J3
R219
3300/J3
R220
10K/J3
C209
0. 1
C206
0. 1
+12A
Q204
2SD601A-TX
Q206
2SB1218A-TX
(14) FE2_LEVEL
R215
10K/J3
R228
3900/J3
C214
180P/UV
R234
47K/J3
C212
22P/UV
FE_CTRL_2 (14)
4
5 6
IC201
TVHC126FTEL
R211
10K/J3
C204
PAT/UV
R213
4700/J3
Q202
2SC3930-TX
R224
10K/J3
R226
2200/J3
R209
10K/J3
R221
3300/J3
R222
10K/J3
C210
0. 1
+3. 3D
V
14
7
G
C201
0. 1
IC204
TLCX74FTEL
+3. 3D
V
14
7
G
C202
0. 1
IC201
TVHC126FTEL
12 13 11
IC201
TVHC126FTEL
+3. 3D
V
14
7
G
C208
0. 1
IC203
TLCX04FTEL
11 10
IC203
TLCX04FTEL
9 8
IC203
TLCX04FTEL
5 6
IC203
TLCX04FTEL
13 12
IC203
TLCX04FTEL
+3. 3D
V
4
5
G
C215
0. 1
IC206
DS90LV047ACX
7 9 10
IC206
DS90LV047ACX
6 12 11
IC206
DS90LV047ACX
A
B
C
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G
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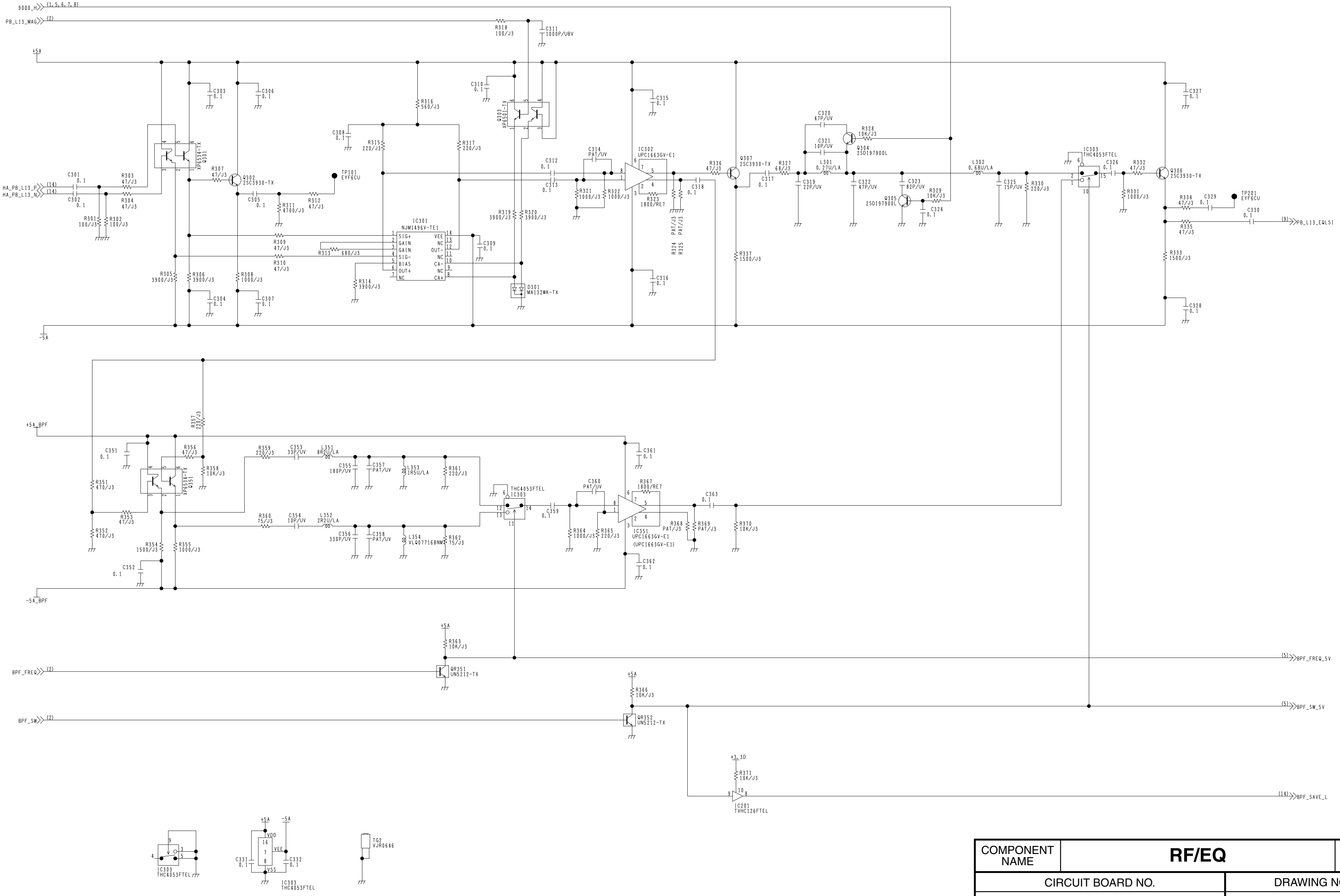
COMPONENT NAME	RF/EQ	03/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(3/14)	
	SCM006	


9000_H (1,5,6,7,8)
PB_L13_MAG (2)
+5A
-5A
HA_PB_L13_P (14)
HA_PB_L13_N (14)
C301 0.1
C302 0.1
R301 100/J3
R302 100/J3
R303 47/J3
R304 47/J3
Q301 XP6534-TX
R307 47/J3
Q302 2SC3930-TX
C303 0.1
C306 0.1
C305 0.1
R311 4700/J3
R312 47/J3
TP101 EYF6CU
R305 3900/J3
R306 3900/J3
R308 1000/J3
C304 0.1
C307 0.1
R309 47/J3
R310 47/J3
R313 680/J3
R314 3900/J3
IC301 NJM1496V-TE1
SIG+
GAIN
SIG-
BIAS
OUT+
NC
VEE
OUT-
CA-
CA+
C308 0.1
R315 220/J3
R316 560/J3
R317 220/J3
R318 100/J3
C311 1000P/UBV
C310 0.1
Q303 XP6501-TX
R319 3900/J3
R320 3900/J3
D301 MA132WK-TX
C309 0.1
C312 0.1
C313 0.1
C314 PAT/UV
R321 1000/J3
R322 1000/J3
IC302 UPC1663GV-E1
R323 1800/RE7
C315 0.1
C316 0.1
R324 PAT/J3
R325 PAT/J3
C318 0.1
R336 47/J3
Q307 2SC3930-TX
R327 68/J3
C317 0.1
R337 1500/J3
C319 22P/UV
C320 47P/UV
C321 10P/UV
L301 0.27U/LA
Q304 2SD197900L
R328 10K/J3
C322 47P/UV
C323 82P/UV
Q305 2SD197900L
R329 10K/J3
C324 0.1
L302 0.68U/LA
C325 15P/UV
R330 220/J3
IC303 THC4053FTEL
C326 0.1
R331 1000/J3
R332 47/J3
Q306 2SC3930-TX
C327 0.1
R334 47/J3
C329 0.1
TP201 EYF6CU
C330 0.1
R335 47/J3
(9) PB_L13_EQLSI
R333 1500/J3
C328 0.1
+5A_BPF
-5A_BPF
C351 0.1
C352 0.1
R351 470/J3
R352 470/J3
R353 47/J3
R354 1500/J3
R355 1000/J3
Q351 XP6534-TX
R356 47/J3
R357 220/J3
R358 10K/J3
R359 220/J3
C353 33P/UV
L351 8R2U/LA
C355 180P/UV
C357 PAT/UV
L353 1R5U/LA
R361 220/J3
R360 75/J3
C354 10P/UV
L352 2R2U/LA
C356 330P/UV
C358 PAT/UV
L354 VLQ077168NM
R362 75/J3
THC4053FTEL IC303
C359 0.1
C360 PAT/UV
R364 1000/J3
R365 220/J3
IC351 UPC1663GV-E1 (UPC1663GV-E1)
R367 1800/RE7
C361 0.1
C362 0.1
R368 PAT/J3
R369 PAT/J3
C363 0.1
R370 10K/J3
+5A
R363 10K/J3
BPF_FREQ (2)
QR351 UN5212-TX
(5) BPF_FREQ_5V
+5A
R366 10K/J3
BPF_SW (2)
QR352 UN5212-TX
(5) BPF_SW_5V
+3.3D
R371 10K/J3
IC201 TVHC126FTEL
(14) BPF_SAVE_L
IC303 THC4053FTEL
+5A
-5A
VDD
VEE
VSS
C331 0.1
C332 0.1
IC303 THC4053FTEL
TG2 VJR0646
A
B
C
D
E
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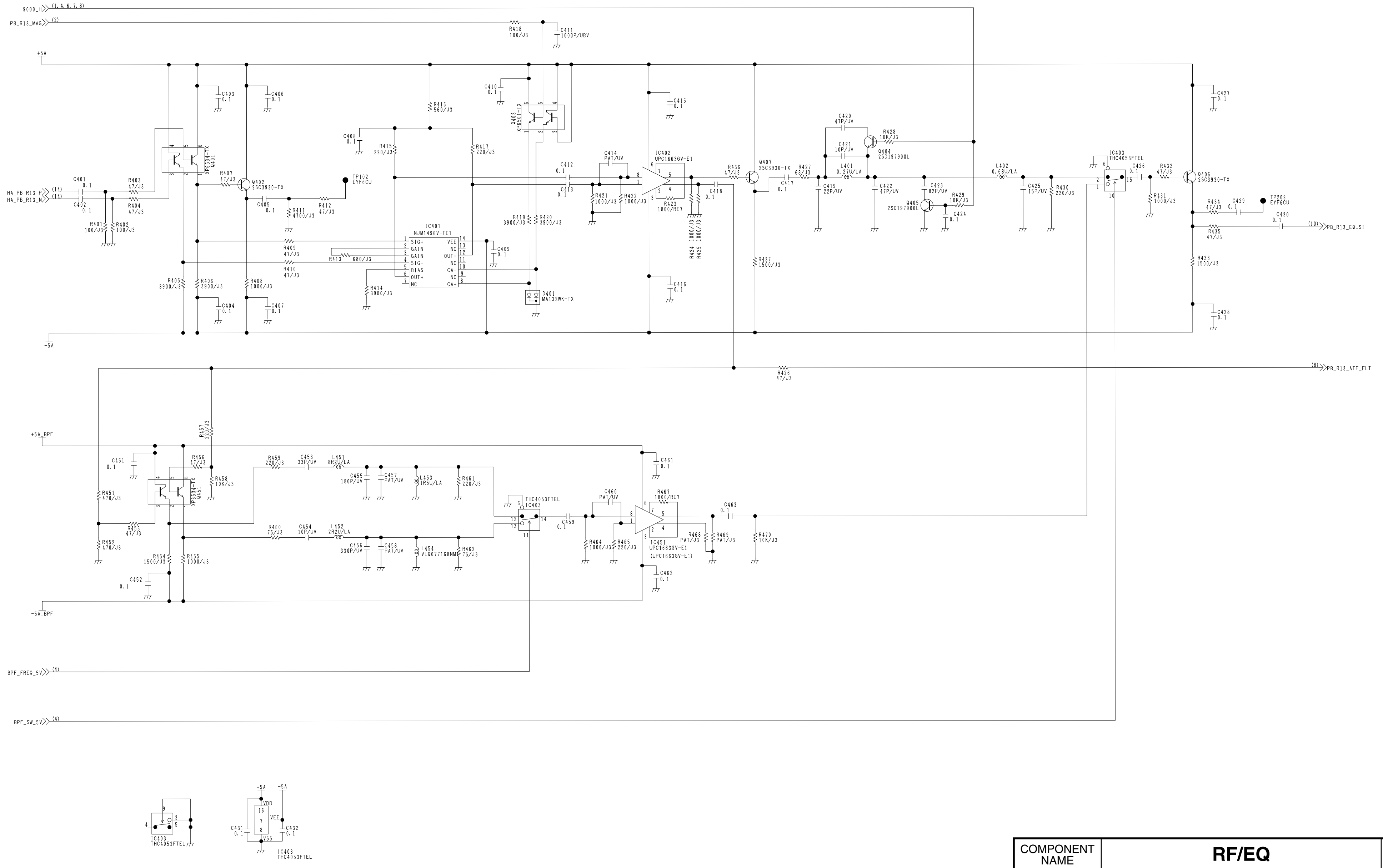
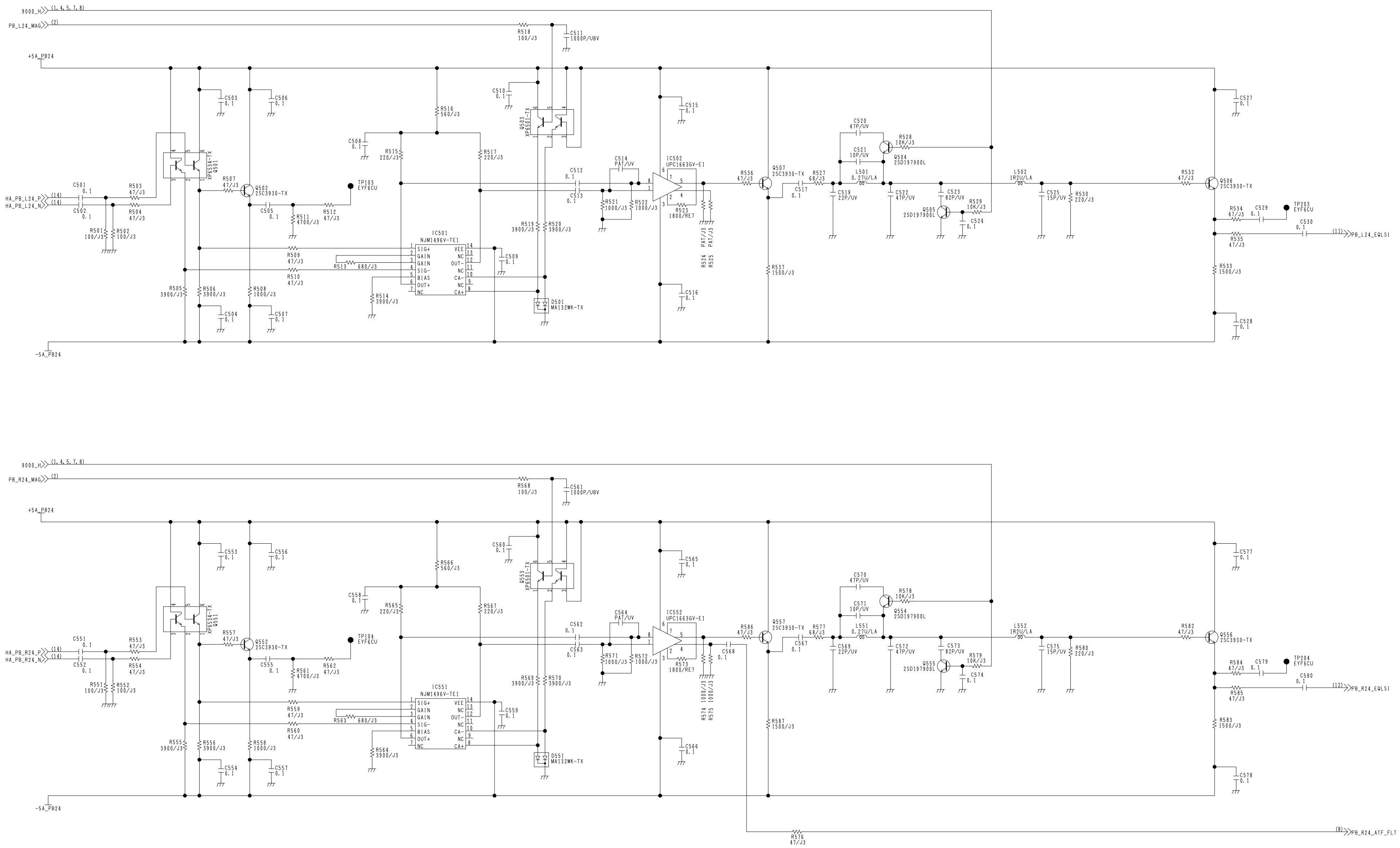
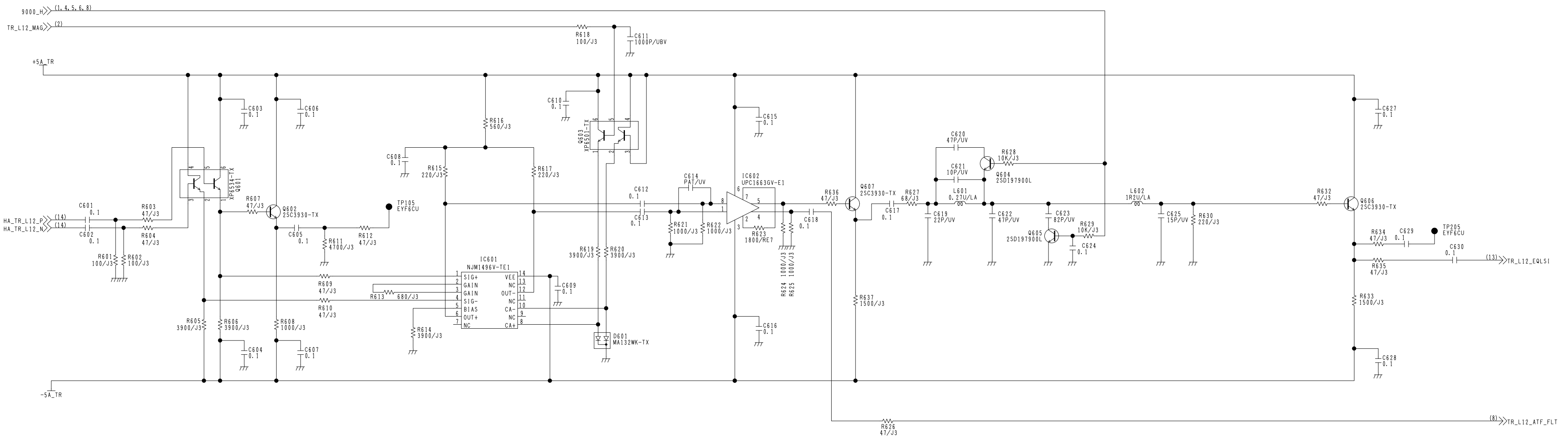
COMPONENT NAME	**RF/EQ**	04/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(4/14)	
	SCM007	


9000_H (1,4,6,7,8)
PB_R13_MAG (2)
+5A
-5A
HA_PB_R13_P (14)
HA_PB_R13_N (14)
R418 100/J3
C411 1000P/UBV
C410 0.1
Q403 XP6501-TX
C401 0.1
C402 0.1
R401 100/J3
R402 100/J3
R403 47/J3
R404 47/J3
Q401 XP6534-TX
C403 0.1
C406 0.1
R407 47/J3
Q402 2SC3930-TX
C405 0.1
R411 4700/J3
R412 47/J3
TP102 EYF6CU
R416 560/J3
C408 0.1
R415 220/J3
R417 220/J3
R419 3900/J3
R420 3900/J3
IC401 NJM1496V-TE1
SIG+ GAIN GAIN SIG- BIAS OUT+ NC VEE NC OUT- NC CA- NC CA+
R409 47/J3
R410 47/J3
R413 680/J3
R414 3900/J3
C409 0.1
D401 MA132WK-TX
R405 3900/J3
R406 3900/J3
R408 1000/J3
C404 0.1
C407 0.1
C412 0.1
C413 0.1
C414 PAT/UV
R421 1000/J3
R422 1000/J3
IC402 UPC1663GV-E1
R423 1800/RE7
C415 0.1
C416 0.1
R424 1000/J3
R425 1000/J3
C418 0.1
R436 47/J3
Q407 2SC3930-TX
R437 1500/J3
C417 0.1
R427 68/J3
C419 22P/UV
C420 47P/UV
C421 10P/UV
L401 0.27U/LA
C422 47P/UV
Q404 2SD197900L
R428 10K/J3
Q405 2SD1979000L
C423 82P/UV
R429 10K/J3
C424 0.1
L402 0.68U/LA
C425 15P/UV
R430 220/J3
IC403 THC4053FTEL
C426 0.1
R432 47/J3
R431 1000/J3
Q406 2SC3930-TX
C427 0.1
R434 47/J3
C429 0.1
TP202 EYF6CU
C430 0.1
R435 47/J3
(10) PB_R13_EQLSI
R433 1500/J3
C428 0.1
R426 47/J3
(8) PB_R13_ATF_FLT
+5A_BPF
-5A_BPF
R457 220/J3
C451 0.1
R456 47/J3
R458 10K/J3
Q451 XP6534-TX
R451 470/J3
R452 470/J3
R453 47/J3
R454 1500/J3
R455 1000/J3
C452 0.1
R459 220/J3
C453 33P/UV
L451 8R2U/LA
C455 180P/UV
C457 PAT/UV
L453 1R5U/LA
R461 220/J3
R460 75/J3
C454 10P/UV
L452 2R2U/LA
C456 330P/UV
C458 PAT/UV
L454 VLQ07716BNM
R462 75/J3
THC4053FTEL IC403
C459 0.1
C460 PAT/UV
R467 1800/RE7
R464 1000/J3
R465 220/J3
IC451 UPC1663GV-E1 (UPC1663GV-E1)
R468 PAT/J3
R469 PAT/J3
C461 0.1
C462 0.1
C463 0.1
R470 10K/J3
BPF_FREQ_5V (4)
BPF_SW_5V (4)
IC403 THC4053FTEL
+5A
-5A
VDD VEE VSS
C431 0.1
C432 0.1
IC403 THC4053FTEL
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	**RF/EQ**	05/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(5/14) **SCM008**	


9000_H (1,4,5,7,8)
PB_L24_MAG (2)
+5A_PB24
-5A_PB24
HA_PB_L24_P (14)
HA_PB_L24_N (14)
C501 0.1
C502 0.1
R501 100/J3
R502 100/J3
R503 47/J3
R504 47/J3
Q501 XP6534-TX
C503 0.1
C504 0.1
R505 3900/J3
R506 3900/J3
R507 47/J3
Q502 2SC3930-TX
C505 0.1
C506 0.1
C507 0.1
R508 1000/J3
R509 47/J3
R510 47/J3
R511 4700/J3
R512 47/J3
TP103 EYF6CU
R513 680/J3
R514 3900/J3
IC501 NJM1496V-TE1
SIG+ GAIN GAIN SIG- BIAS OUT+ NC
VEE NC OUT- NC CA- NC CA+
C508 0.1
C509 0.1
R515 220/J3
R516 560/J3
R517 220/J3
R518 100/J3
C511 1000P/UBV
C510 0.1
Q503 XP6501-TX
R519 3900/J3
R520 3900/J3
D501 MA132WK-TX
C512 0.1
C513 0.1
C514 PAT/UV
R521 1000/J3
R522 1000/J3
IC502 UPC1663GV-E1
R523 1800/RE7
R524 PAT/J3
R525 PAT/J3
C515 0.1
C516 0.1
R536 47/J3
Q507 2SC3930-TX
R537 1500/J3
C517 0.1
R527 68/J3
C519 22P/UV
C520 47P/UV
C521 10P/UV
L501 0.27U/LA
R528 10K/J3
Q504 2SD197900L
C522 47P/UV
C523 82P/UV
Q505 2SD197900L
R529 10K/J3
C524 0.1
L502 1R2U/LA
C525 15P/UV
R530 220/J3
R532 47/J3
Q506 2SC3930-TX
C527 0.1
C528 0.1
R533 1500/J3
R534 47/J3
C529 0.1
TP203 EYF6CU
R535 47/J3
C530 0.1
(11) PB_L24_EQLSI
9000_H (1,4,5,7,8)
PB_R24_MAG (2)
+5A_PB24
-5A_PB24
HA_PB_R24_P (14)
HA_PB_R24_N (14)
C551 0.1
C552 0.1
R551 100/J3
R552 100/J3
R553 47/J3
R554 47/J3
Q551 XP6534-TX
C553 0.1
C554 0.1
R555 3900/J3
R556 3900/J3
R557 47/J3
Q552 2SC3930-TX
C555 0.1
C556 0.1
C557 0.1
R558 1000/J3
R559 47/J3
R560 47/J3
R561 4700/J3
R562 47/J3
TP104 EYF6CU
R563 680/J3
R564 3900/J3
IC551 NJM1496V-TE1
SIG+ GAIN GAIN SIG- BIAS OUT+ NC
VEE NC OUT- NC CA- NC CA+
C558 0.1
C559 0.1
R565 220/J3
R566 560/J3
R567 220/J3
R568 100/J3
C561 1000P/UBV
C560 0.1
Q553 XP6501-TX
R569 3900/J3
R570 3900/J3
D551 MA132WK-TX
C562 0.1
C563 0.1
C564 PAT/UV
R571 1000/J3
R572 1000/J3
IC552 UPC1663GV-E1
R573 1800/RE7
R574 1000/J3
R575 1000/J3
C565 0.1
C566 0.1
C568 0.1
R586 47/J3
Q557 2SC3930-TX
R587 1500/J3
C567 0.1
R577 68/J3
C569 22P/UV
C570 47P/UV
C571 10P/UV
L551 0.27U/LA
R578 10K/J3
Q554 2SD197900L
C572 47P/UV
C573 82P/UV
Q555 2SD197900L
R579 10K/J3
C574 0.1
L552 1R2U/LA
C575 15P/UV
R580 220/J3
R582 47/J3
Q556 2SC3930-TX
C577 0.1
C578 0.1
R583 1500/J3
R584 47/J3
C579 0.1
TP204 EYF6CU
R585 47/J3
C580 0.1
(12) PB_R24_EQLSI
R576 47/J3
(8) PB_R24_ATF_FLT

COMPONENT NAME	RF/EQ	06/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(6/14) SCM009	


9000_H
(1, 4, 5, 6, 8)
TR_L12_MAG
(2)
+5A_TR
-5A_TR
HA_TR_L12_P
(14)
HA_TR_L12_N
(14)
C601
0.1
C602
0.1
R601
100/J3
R602
100/J3
R603
47/J3
R604
47/J3
XP6534-TX
Q601
C603
0.1
C604
0.1
R605
3900/J3
R606
3900/J3
R607
47/J3
Q602
2SC3930-TX
C605
0.1
C606
0.1
C607
0.1
R608
1000/J3
R609
47/J3
R610
47/J3
R611
4700/J3
R612
47/J3
TP105
EYF6CU
R613
680/J3
R614
3900/J3
C608
0.1
R615
220/J3
R616
560/J3
R617
220/J3
IC601
NJM1496V-TE1
SIG+
GAIN
GAIN
SIG-
BIAS
OUT+
NC
VEE
NC
OUT-
NC
CA-
NC
CA+
C609
0.1
C610
0.1
Q603
XP6501-TX
R618
100/J3
C611
1000P/UBV
R619
3900/J3
R620
3900/J3
D601
MA132WK-TX
C612
0.1
C613
0.1
C614
PAT/UV
R621
1000/J3
R622
1000/J3
IC602
UPC1663GV-E1
R623
1800/RE7
R624 1000/J3
R625 1000/J3
C615
0.1
C616
0.1
C618
0.1
R636
47/J3
Q607
2SC3930-TX
C617
0.1
R627
68/J3
R637
1500/J3
C619
22P/UV
C620
47P/UV
C621
10P/UV
L601
0.27U/LA
C622
47P/UV
R628
10K/J3
Q604
2SD197900L
C623
82P/UV
Q605
2SD197900L
R629
10K/J3
C624
0.1
L602
1R2U/LA
C625
15P/UV
R630
220/J3
R626
47/J3
R632
47/J3
Q606
2SC3930-TX
C627
0.1
R634
47/J3
C629
0.1
TP205
EYF6CU
C630
0.1
R635
47/J3
(13)
TR_L12_EQLSI
R633
1500/J3
C628
0.1
(8)
TR_L12_ATF_FLT
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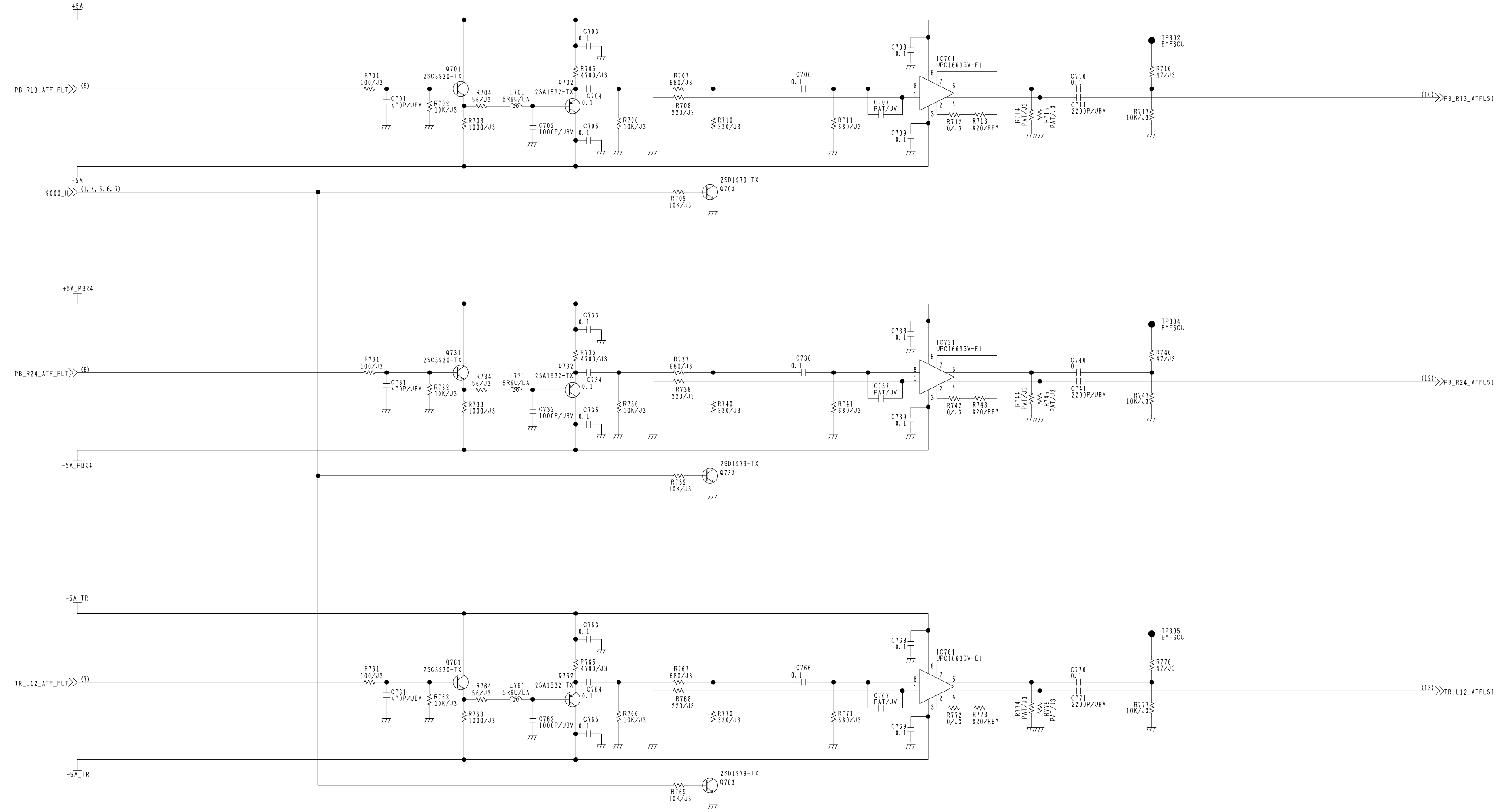
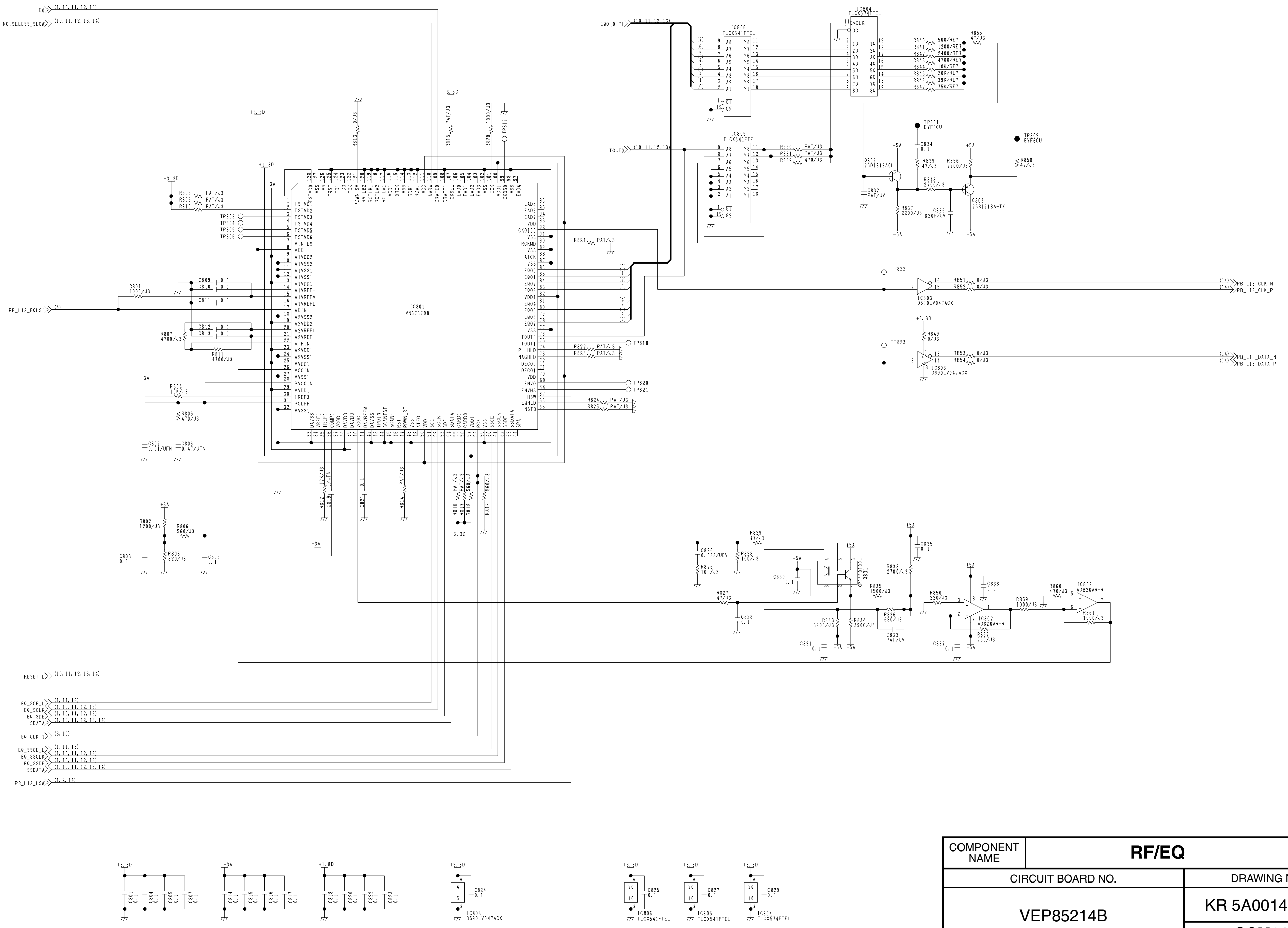
COMPONENT NAME	**RF/EQ**		07/14
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85214B		KR 5A0014(7/14)	
		SCM010	


+5A
PB_R13_ATF_FLT
(5)
-5A
9000_H
(1, 4, 5, 6, 7)
R701
100/J3
C701
470P/UBV
R702
10K/J3
Q701
2SC3930-TX
R703
1000/J3
R704
56/J3
L701
5R6U/LA
C702
1000P/UBV
Q702
2SA1532-TX
C703
0.1
R705
4700/J3
C704
0.1
C705
0.1
R706
10K/J3
R707
680/J3
R708
220/J3
R710
330/J3
R709
10K/J3
2SD1979-TX
Q703
C706
0.1
R711
680/J3
C707
PAT/UV
C708
0.1
C709
0.1
IC701
UPC1663GV-E1
R712
0/J3
R713
820/RE7
R714
PAT/J3
R715
PAT/J3
C710
0.1
C711
2200P/UBV
TP302
EYF6CU
R716
47/J3
R717
10K/J3
(10)
PB_R13_ATFLSI
+5A_PB24
PB_R24_ATF_FLT
(6)
-5A_PB24
R731
100/J3
C731
470P/UBV
R732
10K/J3
Q731
2SC3930-TX
R733
1000/J3
R734
56/J3
L731
5R6U/LA
C732
1000P/UBV
Q732
2SA1532-TX
C733
0.1
R735
4700/J3
C734
0.1
C735
0.1
R736
10K/J3
R737
680/J3
R738
220/J3
R740
330/J3
R739
10K/J3
2SD1979-TX
Q733
C736
0.1
R741
680/J3
C737
PAT/UV
C738
0.1
C739
0.1
IC731
UPC1663GV-E1
R742
0/J3
R743
820/RE7
R744
PAT/J3
R745
PAT/J3
C740
0.1
C741
2200P/UBV
TP304
EYF6CU
R746
47/J3
R747
10K/J3
(12)
PB_R24_ATFLSI
+5A_TR
TR_L12_ATF_FLT
(7)
-5A_TR
R761
100/J3
C761
470P/UBV
R762
10K/J3
Q761
2SC3930-TX
R763
1000/J3
R764
56/J3
L761
5R6U/LA
C762
1000P/UBV
Q762
2SA1532-TX
C763
0.1
R765
4700/J3
C764
0.1
C765
0.1
R766
10K/J3
R767
680/J3
R768
220/J3
R770
330/J3
R769
10K/J3
2SD1979-TX
Q763
C766
0.1
R771
680/J3
C767
PAT/UV
C768
0.1
C769
0.1
IC761
UPC1663GV-E1
R772
0/J3
R773
820/RE7
R774
PAT/J3
R775
PAT/J3
C770
0.1
C771
2200P/UBV
TP305
EYF6CU
R776
47/J3
R777
10K/J3
(13)
TR_L12_ATFLSI

COMPONENT NAME	RF/EQ	08/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(8/14)	
	SCM011	



D0
NOISELESS_SLOW
EQ0[0-7]
TOUT0
PB_L13_EQLSI
RESET_L
EQ_SCE_L
EQ_SCLK
EQ_SDE
SDATA
EQ_CLK_1
EQ_SSCE_L
EQ_SSCLK
EQ_SSDE
SSDATA
PB_L13_HSW
IC801
MN673798
IC806
TLCX541FTEL
IC805
TLCX541FTEL
IC804
TLCX574FTEL
IC803
DS90LV047ACX
IC802
AD826AR-R
Q801
XP04501DDL
Q802
2SD1819A0L
Q803
2SB1218A-TX
TP801
EYF6CU
TP802
EYF6CU
PB_L13_CLK_N
PB_L13_CLK_P
PB_L13_DATA_N
PB_L13_DATA_P
+3.3D
+1.8D
+3A
+5A
-5A
A
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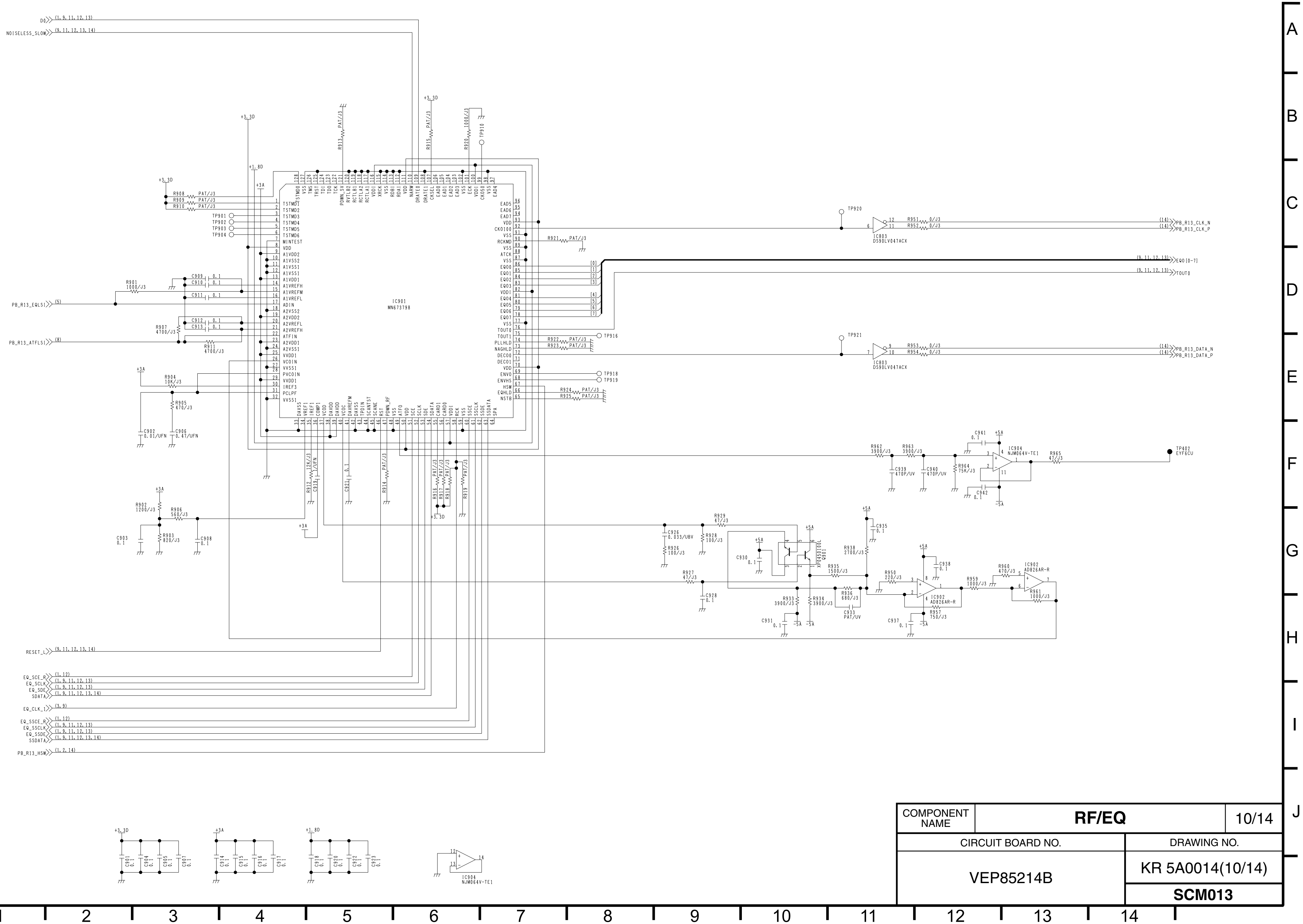
COMPONENT NAME	RF/EQ	09/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(9/14)	
	SCM012	


DO
NOISELESS_SLOW
IC901
MN673798
+3.3D
+1.8D
+3A
R908 PAT/J3
R909 PAT/J3
R910 PAT/J3
TP901
TP902
TP903
TP904
R901 1000/J3
C909 0.1
C910 0.1
C911 0.1
PB_R13_EQLSI
R907 4700/J3
C912 0.1
C913 0.1
PB_R13_ATFLSI
R911 4700/J3
R904 10K/J3
R905 470/J3
C902 0.01/UFN
C906 0.47/UFN
R913 PAT/J3
R915 PAT/J3
R920 1000/J3
TP910
R921 PAT/J3
TP920
IC803 DS90LV047ACX
R951 0/J3
R952 0/J3
PB_R13_CLK_N
PB_R13_CLK_P
EQO[0-7]
TOUTO
R922 PAT/J3
R923 PAT/J3
TP916
TP921
R953 0/J3
R954 0/J3
PB_R13_DATA_N
PB_R13_DATA_P
TP918
TP919
R924 PAT/J3
R925 PAT/J3
R962 3900/J3
R963 3900/J3
C941 0.1
IC904 NJM064V-TE1
R965 47/J3
TP402 EYF6CU
C939 470P/UV
C940 470P/UV
R964 75K/J3
C942 0.1
R912 10K/J3
C919 1/UFN
C921 0.1
R914 PAT/J3
R916 PAT/J3
R917 PAT/J3
R918 PAT/J3
R919 PAT/J3
R902 1200/J3
R906 560/J3
R903 820/J3
C903 0.1
C908 0.1
R929 47/J3
C926 0.033/UBV
R926 100/J3
R928 100/J3
C930 0.1
XP04501
Q901
R935 1500/J3
R938 2700/J3
C935 0.1
R927 47/J3
C928 0.1
R933 3900/J3
R934 3900/J3
R936 680/J3
C933 PAT/UV
C931 0.1
R950 220/J3
C938 0.1
IC902 AD826AR-R
R957 750/J3
C937 0.1
R959 1000/J3
R960 470/J3
R961 1000/J3
+5A
-5A
RESET_L
EQ_SCE_R
EQ_SCLK
EQ_SDE
SDATA
EQ_CLK_1
EQ_SSCE_R
EQ_SSCLK
EQ_SSDE
SSDATA
PB_R13_HSW
C901 0.1
C904 0.1
C905 0.1
C907 0.1
C914 0.1
C915 0.1
C916 0.1
C917 0.1
C918 0.1
C920 0.1
C922 0.1
C923 0.1
A
B
C
D
E
F
G
H
I
J
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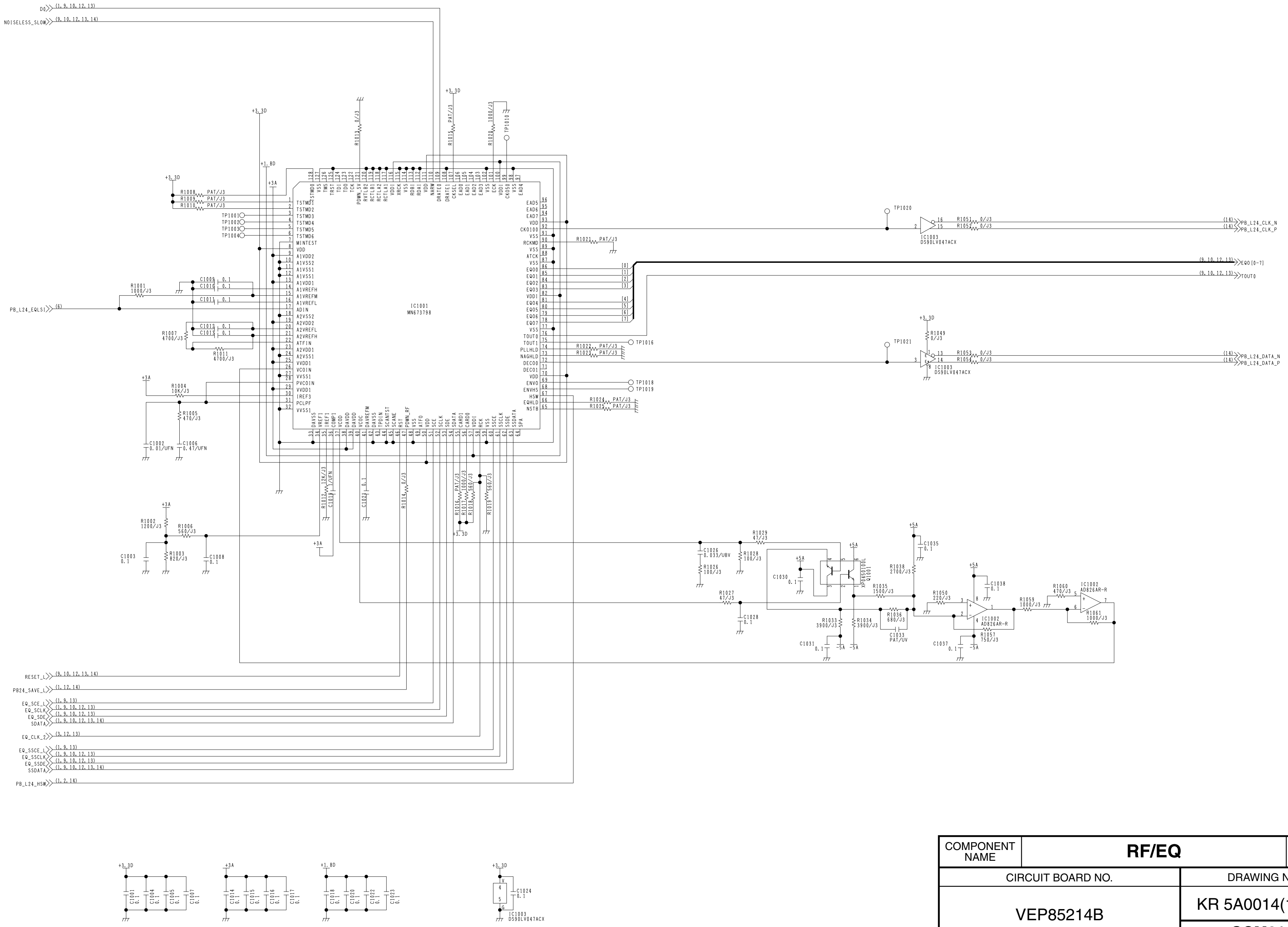
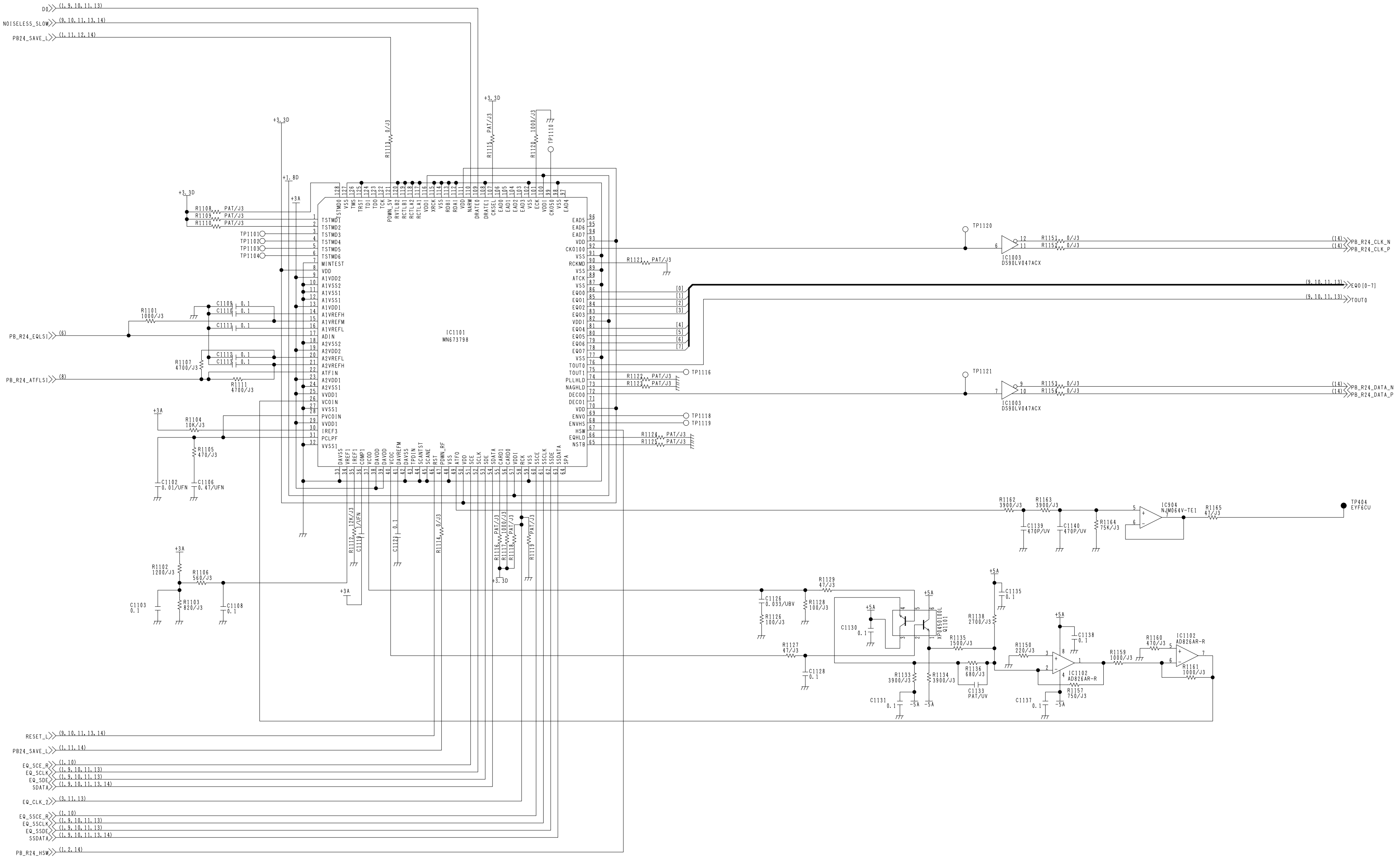
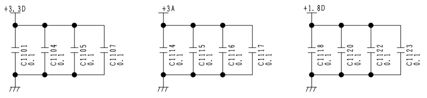
COMPONENT NAME	RF/EQ	10/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(10/14)	
	SCM013	

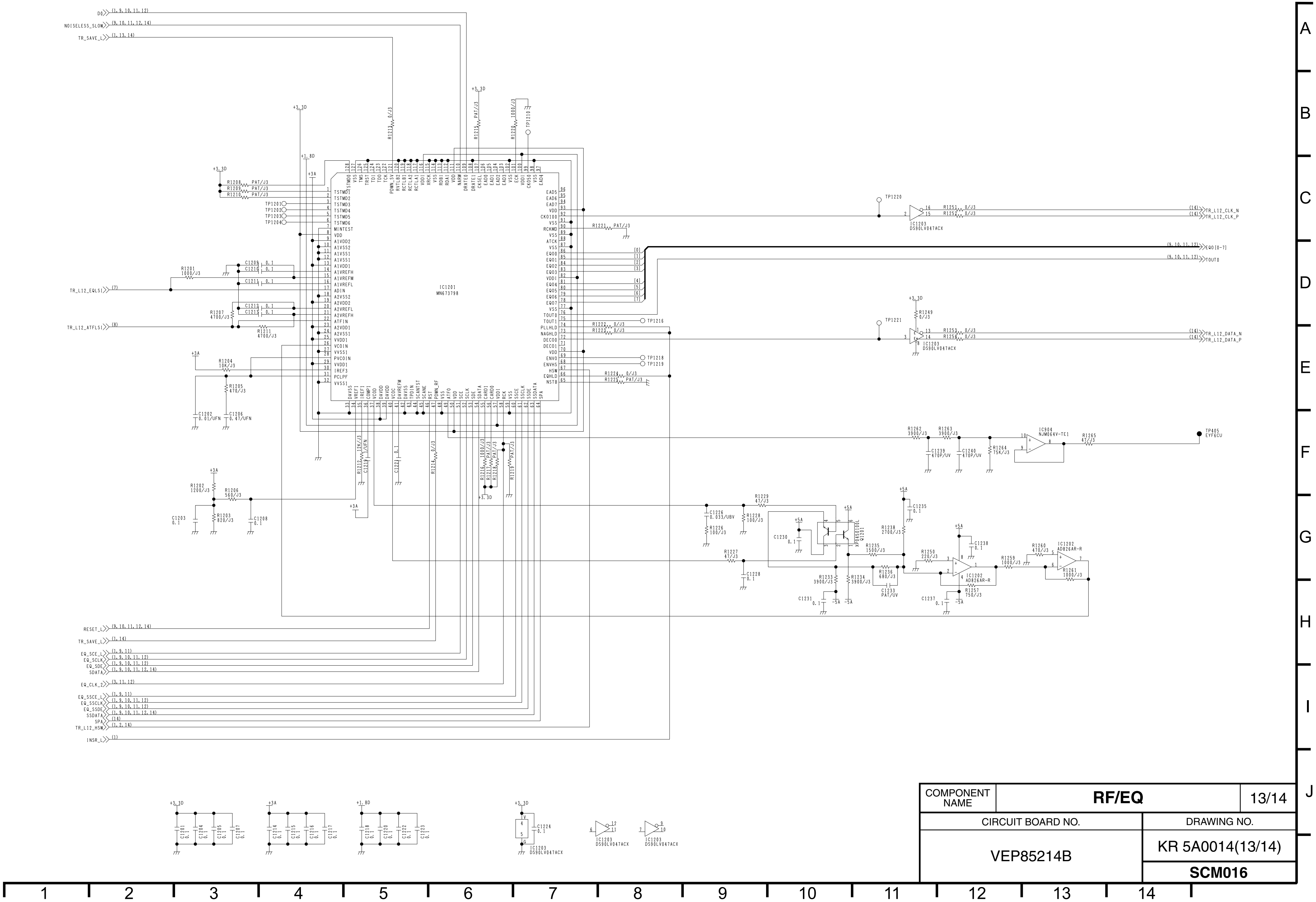

D0
NOISELESS_SLOW
PB_L24_EQLSI
IC1001
MN673798
IC1002
AD826AR-R
IC1003
DS90LV047ACX
PB_L24_CLK_N
PB_L24_CLK_P
EQO[0-7]
TOUT0
PB_L24_DATA_N
PB_L24_DATA_P
RESET_L
PB24_SAVE_L
EQ_SCE_L
EQ_SCLK
EQ_SDE
SDATA
EQ_CLK_2
EQ_SSCE_L
EQ_SSCLK
EQ_SSDE
SSDATA
PB_L24_HSW
+3.3D
+1.8D
+3A
+5A
-5A

COMPONENT NAME	RF/EQ	11/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(11/14) **SCM014**	


D0 (1,9,10,11,13)
NOISELESS_SLOW (9,10,11,13,14)
PB24_SAVE_L (1,11,12,14)
IC1101
MN673798
PB_R24_EQLSI (6)
PB_R24_ATFLSI (8)
TP1120
TP1121
IC1003
DS90LV047ACX
PB_R24_CLK_N
PB_R24_CLK_P
EQ0[0-7]
TOUT0
PB_R24_DATA_N
PB_R24_DATA_P
TP1116
TP1118
TP1119
IC904
NJM064V-TE1
TP404
EYF6CU
IC1102
AD826AR-R
XP04501DL
Q1101
RESET_L (9,10,11,13,14)
PB24_SAVE_L (1,11,14)
EQ_SCE_R (1,10)
EQ_SCLK (1,9,10,11,13)
EQ_SDE (1,9,10,11,13)
SDATA (1,9,10,11,13,14)
EQ_CLK_2 (3,11,13)
EQ_SSCE_R (1,10)
EQ_SSCLK (1,9,10,11,13)
EQ_SSDE (1,9,10,11,13)
SSDATA (1,9,10,11,13,14)
PB_R24_HSW (1,2,14)
+3.3D
+1.8D
+3A
+5A
-5A


+3.3D
C1101 0.1
C1104 0.1
C1105 0.1
C1107 0.1
+3A
C1114 0.1
C1115 0.1
C1116 0.1
C1117 0.1
+1.8D
C1118 0.1
C1120 0.1
C1122 0.1
C1123 0.1

COMPONENT NAME	RF/EQ	12/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(12/14)	
	SCM015	


D0 (1, 9, 10, 11, 12)
NOISELESS_SLOW (9, 10, 11, 12, 14)
TR_SAVE_L (1, 13, 14)
TR_L12_EQLS1 (7)
TR_L12_ATFLS1 (8)
RESET_L (9, 10, 11, 12, 14)
TR_SAVE_L (1, 14)
EQ_SCE_L (1, 9, 11)
EQ_SCLK (1, 9, 10, 11, 12)
EQ_SDE (1, 9, 10, 11, 12)
SDATA (1, 9, 10, 11, 12, 14)
EQ_CLK_2 (3, 11, 12)
EQ_SSCE_L (1, 9, 11)
EQ_SSCLK (1, 9, 10, 11, 12)
EQ_SSDE (1, 9, 10, 11, 12)
SSDATA (1, 9, 10, 11, 12, 14)
SPA (14)
TR_L12_HSW (1, 2, 14)
INSR_L (1)
IC1201
MN673798
TP1201
TP1202
TP1203
TP1204
TP1210
TP1216
TP1218
TP1219
R1201 1000/J3
R1202 1200/J3
R1203 820/J3
R1204 10K/J3
R1205 470/J3
R1206 560/J3
R1207 4700/J3
R1208 PAT/J3
R1209 PAT/J3
R1210 PAT/J3
R1211 4700/J3
R1212 12K/J3
R1213 0/J3
R1214 0/J3
R1215 PAT/J3
R1216 1000/J3
R1217 PAT/J3
R1218 PAT/J3
R1219 PAT/J3
R1220 1000/J3
R1221 PAT/J3
R1222 0/J3
R1223 0/J3
R1224 0/J3
R1225 PAT/J3
C1202 0.01/UFN
C1203 0.1
C1206 0.47/UFN
C1208 0.1
C1209 0.1
C1210 0.1
C1211 0.1
C1212 0.1
C1213 0.1
C1219 1/UFN
C1221 0.1
+3.3D
+1.8D
+3A
TP1220
IC1203
DS90LV047ACX
R1251 0/J3
R1252 0/J3
(14) TR_L12_CLK_N
(14) TR_L12_CLK_P
(9, 10, 11, 12) EQ0[0-7]
(9, 10, 11, 12) TOUT0
TP1221
R1249 0/J3
R1253 0/J3
R1254 0/J3
(14) TR_L12_DATA_N
(14) TR_L12_DATA_P
R1262 3900/J3
R1263 3900/J3
C1239 470P/UV
C1240 470P/UV
R1264 75K/J3
IC904
NJM064V-TE1
R1265 47/J3
TP405
EYF6CU
R1229 47/J3
C1226 0.033/UBV
R1226 100/J3
R1228 100/J3
C1230 0.1
XP0450100L
Q1201
R1227 47/J3
C1228 0.1
R1233 3900/J3
R1234 3900/J3
C1231 0.1
R1235 1500/J3
R1236 680/J3
C1233 PAT/UV
R1238 2700/J3
C1235 0.1
+5A
-5A
R1250 220/J3
C1238 0.1
IC1202
AD826AR-R
R1257 750/J3
C1237 0.1
R1259 1000/J3
R1260 470/J3
R1261 1000/J3
C1201 0.1
C1204 0.1
C1205 0.1
C1207 0.1
C1214 0.1
C1215 0.1
C1216 0.1
C1217 0.1
C1218 0.1
C1220 0.1
C1222 0.1
C1223 0.1
C1224 0.1
A
B
C
D
E
F
G
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I
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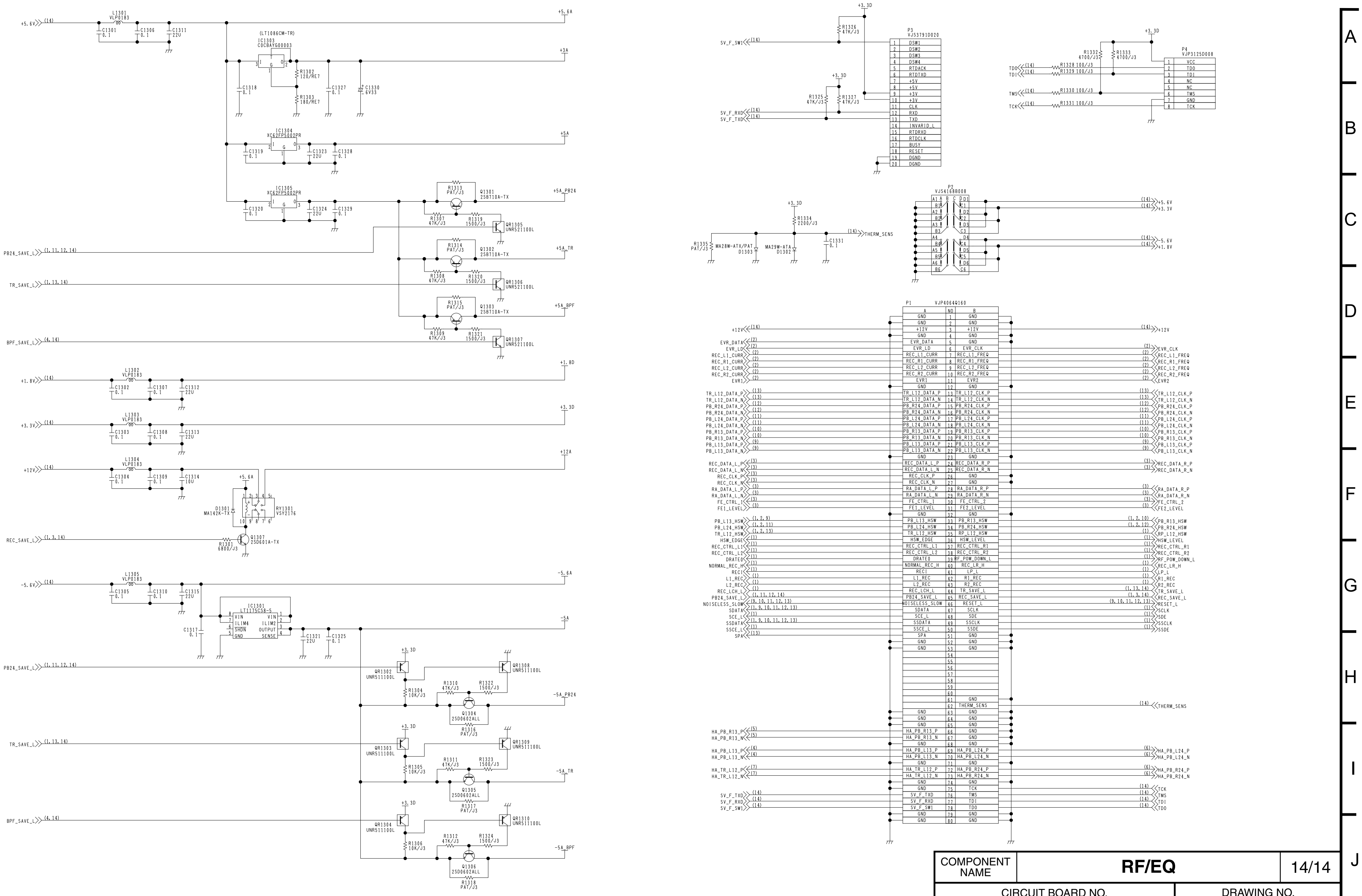
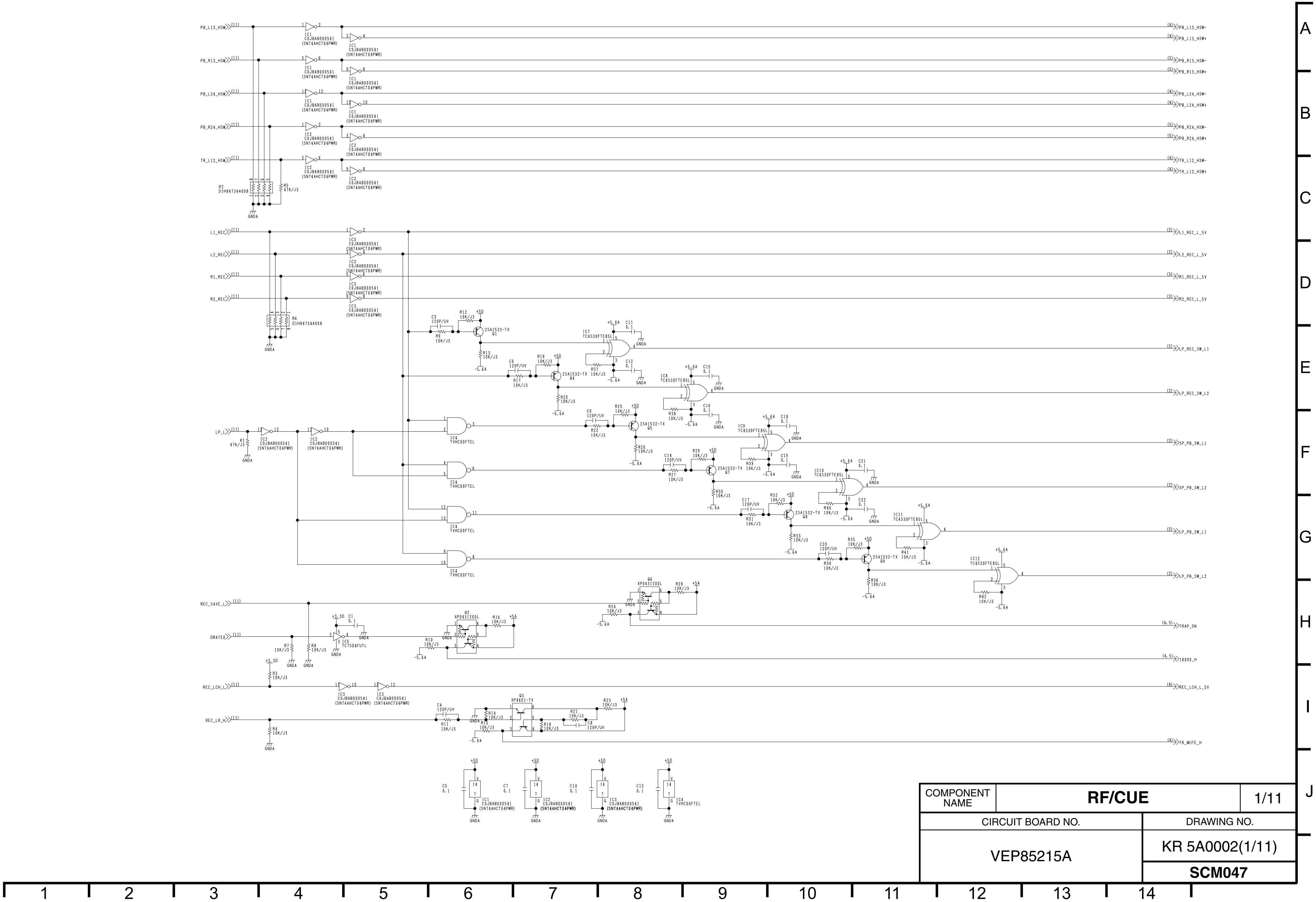
COMPONENT NAME	RF/EQ	13/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(13/14)	
	SCM016	


+5.6V (14)
L1301 VLP0183
C1301 0.1
C1306 0.1
C1311 22U
+5.6A
(LT1086CM-TR)
IC1303 C0CBAYG00003
R1302 120/RE7
R1303 180/RE7
C1318 0.1
C1327 0.1
C1330 6V33
+3A
IC1304 XC62FP5002PR
C1319 0.1
C1323 22U
C1328 0.1
+5A
IC1305 XC62FP5002PR
C1320 0.1
C1324 22U
C1329 0.1
R1313 PAT/J3
Q1301 2SB710A-TX
+5A_PB24
R1307 47K/J3
R1319 1500/J3
QR1305 UNR521100L
PB24_SAVE_L (1, 11, 12, 14)
R1314 PAT/J3
Q1302 2SB710A-TX
+5A_TR
R1308 47K/J3
R1320 1500/J3
QR1306 UNR521100L
TR_SAVE_L (1, 13, 14)
R1315 PAT/J3
Q1303 2SB710A-TX
+5A_BPF
R1309 47K/J3
R1321 1500/J3
QR1307 UNR521100L
BPF_SAVE_L (4, 14)
+1.8V (14)
L1302 VLP0183
C1302 0.1
C1307 0.1
C1312 22U
+1.8D
+3.3V (14)
L1303 VLP0183
C1303 0.1
C1308 0.1
C1313 22U
+3.3D
+12V (14)
L1304 VLP0183
C1304 0.1
C1309 0.1
C1314 10U
+12A
+5.6A
D1301 MA142K-TX
RY1301 VSY2176
REC_SAVE_L (1, 3, 14)
R1301 6800/J3
Q1307 2SD601A-TX
-5.6V (14)
L1305 VLP0183
C1305 0.1
C1310 0.1
C1315 22U
-5.6A
IC1301 LT1175CS8-5
VIN
ILIM4
SHDN
GND
VIN
ILIM2
OUTPUT
SENSE
C1317 0.1
C1321 22U
C1325 0.1
-5A
PB24_SAVE_L (1, 11, 12, 14)
+3.3D
QR1302 UNR511100L
QR1308 UNR511100L
R1304 10K/J3
R1310 47K/J3
R1322 1500/J3
-5A_PB24
Q1304 2SD0602ALL
R1316 PAT/J3
TR_SAVE_L (1, 13, 14)
+3.3D
QR1303 UNR511100L
QR1309 UNR511100L
R1305 10K/J3
R1311 47K/J3
R1323 1500/J3
-5A_TR
Q1305 2SD0602ALL
R1317 PAT/J3
BPF_SAVE_L (4, 14)
+3.3D
QR1304 UNR511100L
QR1310 UNR511100L
R1306 10K/J3
R1312 47K/J3
R1324 1500/J3
-5A_BPF
Q1306 2SD0602ALL
R1318 PAT/J3
+3.3D
R1326 47K/J3
SV_F_SW1 (14)
+3.3D
R1325 47K/J3
R1327 47K/J3
SV_F_RXD (14)
SV_F_TXD (14)
P3 VJS3791D020
1 DSW1
2 DSW2
3 DSW3
4 DSW4
5 RTDACK
6 RTDTXD
7 +5V
8 +5V
9 +3V
10 +3V
11 CLK
12 RXD
13 TXD
14 INVARID_L
15 RTDRXD
16 RTDCLK
17 BUSY
18 RESET
19 DGND
20 DGND
+3.3D
R1332 4700/J3
R1333 4700/J3
TDO (14) R1328 100/J3
TDI (14) R1329 100/J3
TMS (14) R1330 100/J3
TCK (14) R1331 100/J3
P4 VJP3125D008
1 VCC
2 TDO
3 TDI
4 NC
5 NC
6 TMS
7 GND
8 TCK
+3.3D
R1334 2200/J3
R1335 PAT/J3
MA28W-ATX/PAT D1303
MA29W-ATA D1302
C1331 0.1
(14) THERM_SENS
P2 VJS4168B008
A1 A B C D D1
B1 C1
A2 D2
B2 C2
A3 D3
B3 C3
A4 D4
B4 C4
A5 D5
B5 C5
A6 D6
B6 C6
(14) +5.6V
(14) +3.3V
(14) -5.6V
(14) +1.8V
P1 VJP4064Q160
A NO B
GND 1 GND
GND 2 GND
+12V 3 +12V
GND 4 GND
EVR_DATA 5 GND
EVR_LD 6 EVR_CLK
REC_L1_CURR 7 REC_L1_FREQ
REC_R1_CURR 8 REC_R1_FREQ
REC_L2_CURR 9 REC_L2_FREQ
REC_R2_CURR 10 REC_R2_FREQ
EVR1 11 EVR2
GND 12 GND
TR_L12_DATA_P 13 TR_L12_CLK_P
TR_L12_DATA_N 14 TR_L12_CLK_N
PB_R24_DATA_P 15 PB_R24_CLK_P
PB_R24_DATA_N 16 PB_R24_CLK_N
PB_L24_DATA_P 17 PB_L24_CLK_P
PB_L24_DATA_N 18 PB_L24_CLK_N
PB_R13_DATA_P 19 PB_R13_CLK_P
PB_R13_DATA_N 20 PB_R13_CLK_N
PB_L13_DATA_P 21 PB_L13_CLK_P
PB_L13_DATA_N 22 PB_L13_CLK_N
GND 23 GND
REC_DATA_L_P 24 REC_DATA_R_P
REC_DATA_L_N 25 REC_DATA_R_N
REC_CLK_P 26 GND
REC_CLK_N 27 GND
RA_DATA_L_P 28 RA_DATA_R_P
RA_DATA_L_N 29 RA_DATA_R_N
FE_CTRL_1 30 FE_CTRL_2
FE1_LEVEL 31 FE2_LEVEL
GND 32 GND
PB_L13_HSW 33 PB_R13_HSW
PB_L24_HSW 34 PB_R24_HSW
TR_L12_HSW 35 RP_L12_HSW
HSW_EDGE 36 HSW_LEVEL
REC_CTRL_L1 37 REC_CTRL_R1
REC_CTRL_L2 38 REC_CTRL_R2
DRATE0 39 RF_POW_DOWN_L
NORMAL_REC_H 40 REC_LR_H
RECI 41 LP_L
L1_REC 42 R1_REC
L2_REC 43 R2_REC
REC_LCH_L 44 TR_SAVE_L
PB24_SAVE_L 45 REC_SAVE_L
NOISELESS_SLOW 46 RESET_L
SDATA 47 SCLK
SCE_L 48 SDE
SSDATA 49 SSCLK
SSCE_L 50 SSDE
SPA 51 GND
GND 52 GND
GND 53 GND
54
55
56
57
58
59
60
61 GND
62 THERM_SENS
GND 63 GND
GND 64 GND
GND 65 GND
HA_PB_R13_P 66 GND
HA_PB_R13_N 67 GND
GND 68 GND
HA_PB_L13_P 69 HA_PB_L24_P
HA_PB_L13_N 70 HA_PB_L24_N
GND 71 GND
HA_TR_L12_P 72 HA_PB_R24_P
HA_TR_L12_N 73 HA_PB_R24_N
GND 74 GND
GND 75 TCK
SV_F_TXD 76 TMS
SV_F_RXD 77 TDI
SV_F_SW1 78 TDO
GND 79 GND
GND 80 GND
+12V (14)
EVR_DATA (2)
EVR_LD (2)
REC_L1_CURR (2)
REC_R1_CURR (2)
REC_L2_CURR (2)
REC_R2_CURR (2)
EVR1 (2)
TR_L12_DATA_P (13)
TR_L12_DATA_N (13)
PB_R24_DATA_P (12)
PB_R24_DATA_N (12)
PB_L24_DATA_P (11)
PB_L24_DATA_N (11)
PB_R13_DATA_P (10)
PB_R13_DATA_N (10)
PB_L13_DATA_P (9)
PB_L13_DATA_N (9)
REC_DATA_L_P (3)
REC_DATA_L_N (3)
REC_CLK_P (3)
REC_CLK_N (3)
RA_DATA_L_P (3)
RA_DATA_L_N (3)
FE_CTRL_1 (3)
FE1_LEVEL (3)
PB_L13_HSW (1, 2, 9)
PB_L24_HSW (1, 2, 11)
TR_L12_HSW (1, 2, 13)
HSW_EDGE (1)
REC_CTRL_L1 (1)
REC_CTRL_L2 (1)
DRATE0 (1)
NORMAL_REC_H (1)
RECI (1)
L1_REC (1)
L2_REC (1)
REC_LCH_L (1)
PB24_SAVE_L (1, 11, 12, 14)
NOISELESS_SLOW (9, 10, 11, 12, 13)
SDATA (1, 9, 10, 11, 12, 13)
SCE_L (1)
SSDATA (1, 9, 10, 11, 12, 13)
SSCE_L (1)
SPA (13)
HA_PB_R13_P (5)
HA_PB_R13_N (5)
HA_PB_L13_P (4)
HA_PB_L13_N (4)
HA_TR_L12_P (7)
HA_TR_L12_N (7)
SV_F_TXD (14)
SV_F_RXD (14)
SV_F_SW1 (14)
(14) +12V
(2) EVR_CLK
(2) REC_L1_FREQ
(2) REC_R1_FREQ
(2) REC_L2_FREQ
(2) REC_R2_FREQ
(2) EVR2
(13) TR_L12_CLK_P
(13) TR_L12_CLK_N
(12) PB_R24_CLK_P
(12) PB_R24_CLK_N
(11) PB_L24_CLK_P
(11) PB_L24_CLK_N
(10) PB_R13_CLK_P
(10) PB_R13_CLK_N
(9) PB_L13_CLK_P
(9) PB_L13_CLK_N
(3) REC_DATA_R_P
(3) REC_DATA_R_N
(3) RA_DATA_R_P
(3) RA_DATA_R_N
(3) FE_CTRL_2
(3) FE2_LEVEL
(1, 2, 10) PB_R13_HSW
(1, 2, 12) PB_R24_HSW
(1) RP_L12_HSW
(1) HSW_LEVEL
(1) REC_CTRL_R1
(1) REC_CTRL_R2
(1) RF_POW_DOWN_L
(1) REC_LR_H
(1) LP_L
(1) R1_REC
(1) R2_REC
(1, 13, 14) TR_SAVE_L
(1, 3, 14) REC_SAVE_L
(9, 10, 11, 12, 13) RESET_L
(1) SCLK
(1) SDE
(1) SSCLK
(1) SSDE
(14) THERM_SENS
(6) HA_PB_L24_P
(6) HA_PB_L24_N
(6) HA_PB_R24_P
(6) HA_PB_R24_N
(14) TCK
(14) TMS
(14) TDI
(14) TDO

COMPONENT NAME	**RF/EQ**	14/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85214B	KR 5A0014(14/14)	
	SCM017	


PB_L13_HSW
PB_R13_HSW
PB_L24_HSW
PB_R24_HSW
TR_L12_HSW
PB_L13_HSW-
PB_L13_HSW+
PB_R13_HSW-
PB_R13_HSW+
PB_L24_HSW-
PB_L24_HSW+
PB_R24_HSW-
PB_R24_HSW+
TR_L12_HSW-
TR_L12_HSW+
IC1 C0JBAB000541 (SN74AHCT04PWR)
IC2 C0JBAB000541 (SN74AHCT04PWR)
IC3 C0JBAB000541 (SN74AHCT04PWR)
R2 D1H84734A008
R5 47K/J3
GNDA
L1_REC
L2_REC
R1_REC
R2_REC
L1_REC_L_5V
L2_REC_L_5V
R1_REC_L_5V
R2_REC_L_5V
R6 D1H84734A008
LP_L
R1 47K/J3
IC4 TVHC00FTEL
2SA1532-TX
IC7 TC4S30FTE85L
IC8 TC4S30FTE85L
IC9 TC4S30FTE85L
IC10 TC4S30FTE85L
IC11 TC4S30FTE85L
IC12 TC4S30FTE85L
LP_REC_SW_L1
LP_REC_SW_L2
SP_PB_SW_L1
SP_PB_SW_L2
LP_PB_SW_L1
LP_PB_SW_L2
+5.6A
-5.6A
+5D
+5A
+3.3D
REC_SAVE_L
DRATE0
IC5 TC7S04FUTL
Q2 XP04312000L
Q6 XP04312000L
TRAP_ON
18000_H
REC_LCH_L
REC_LCH_L_5V
REC_LR_H
Q3 XP4601-TX
TR_MUTE_H
A
B
C
D
E
F
G
H
I
J
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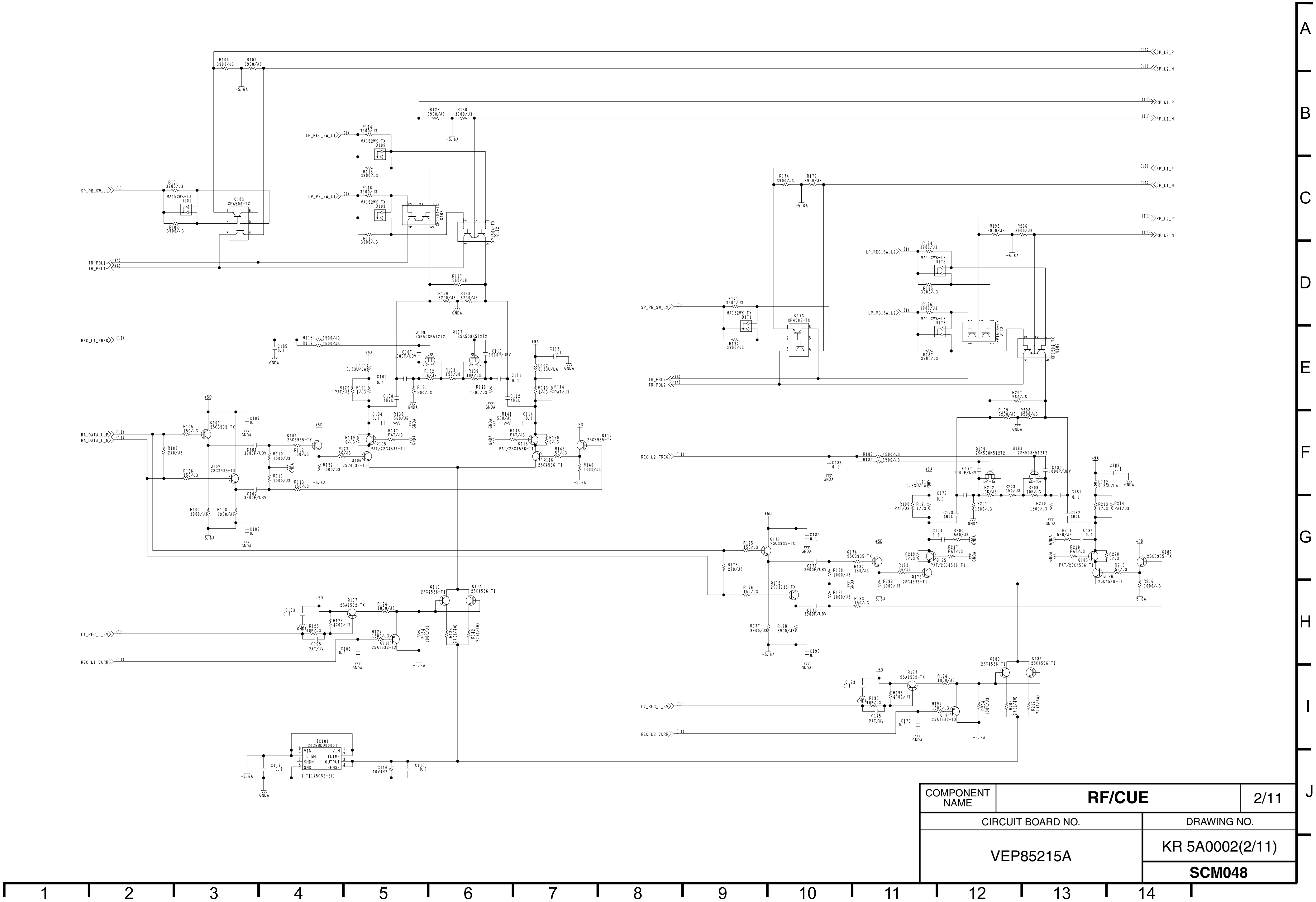
COMPONENT NAME	RF/CUE	1/11
CIRCUIT BOARD NO.		DRAWING NO.
VEP85215A		KR 5A0002(1/11)
		SCM047


SP_L2_P
SP_L2_N
RP_L1_P
RP_L1_N
SP_L1_P
SP_L1_N
RP_L2_P
RP_L2_N
SP_PB_SW_L1
LP_REC_SW_L1
LP_PB_SW_L1
TR_PBL1+
TR_PBL1-
REC_L1_FREQ
RA_DATA_L_P
RA_DATA_L_N
L1_REC_L_5V
REC_L1_CURR
SP_PB_SW_L2
LP_REC_SW_L2
LP_PB_SW_L2
TR_PBL2+
TR_PBL2-
REC_L2_FREQ
L2_REC_L_5V
REC_L2_CURR
Q103 XP4506-TX
Q108 XP1504-TX
Q112 XP1504-TX
Q109 2SK508K512T2
Q113 2SK508K512T2
Q173 XP4506-TX
Q178 XP1504-TX
Q182 XP1504-TX
Q179 2SK508K512T2
Q183 2SK508K512T2
IC101 C0CBBDD00001
VIN
ILIM4
SHDN
GND
VIN
ILIM2
OUTPUT
SENSE
(LT1175CS8-5)
+5D
+9A
-5.6A
GNDA
A
B
C
D
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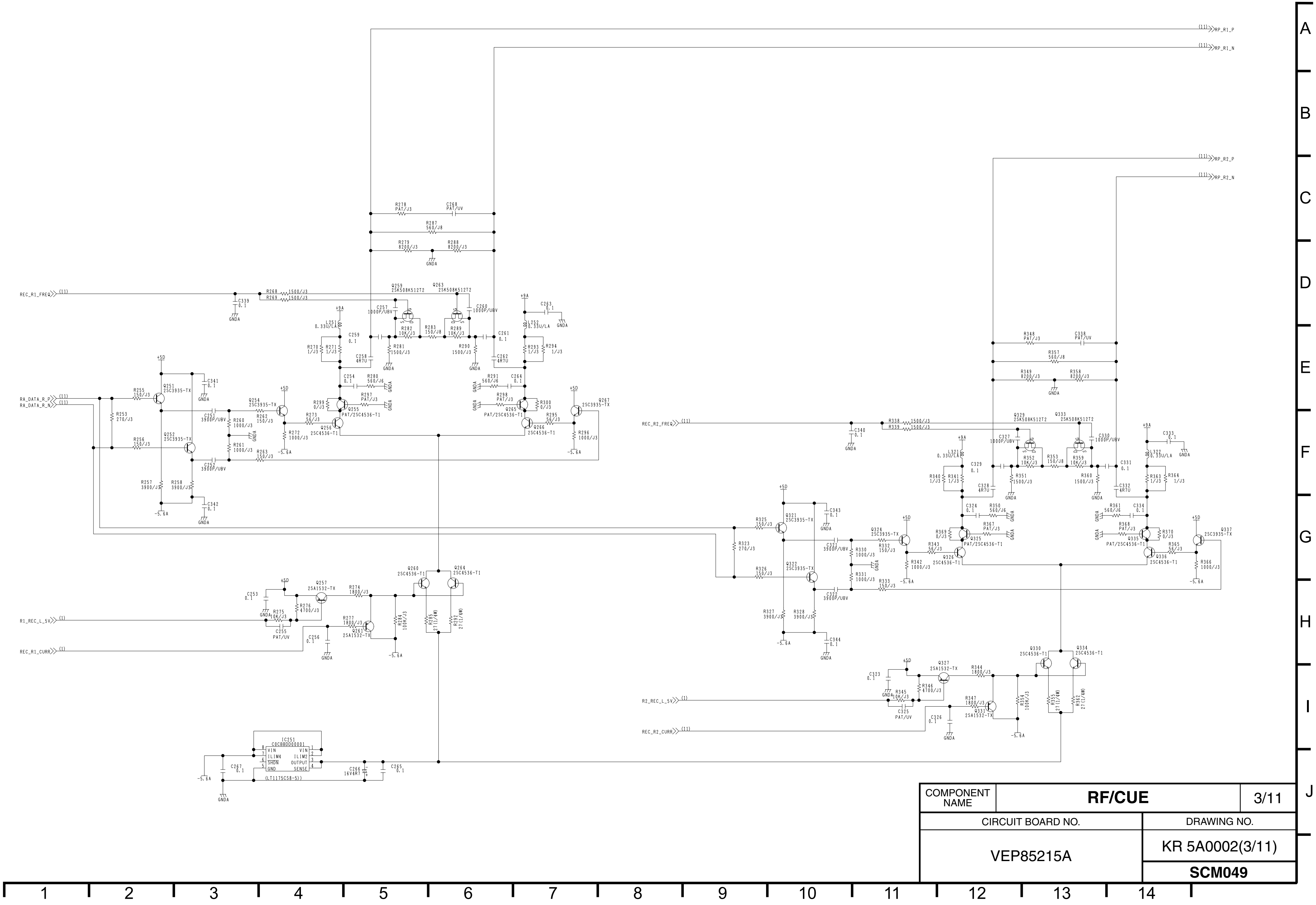
COMPONENT NAME	RF/CUE		2/11
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85215A		KR 5A0002(2/11)	
		SCM048	


RP_R1_P
RP_R1_N
RP_R2_P
RP_R2_N
REC_R1_FREQ
RA_DATA_R_P
RA_DATA_R_N
R1_REC_L_SV
REC_R1_CURR
REC_R2_FREQ
R2_REC_L_SV
REC_R2_CURR
IC251
C0CBBDD00001
(LT1175CS8-5)
+5D
+9A
-5.6A
GNDA
A
B
C
D
E
F
G
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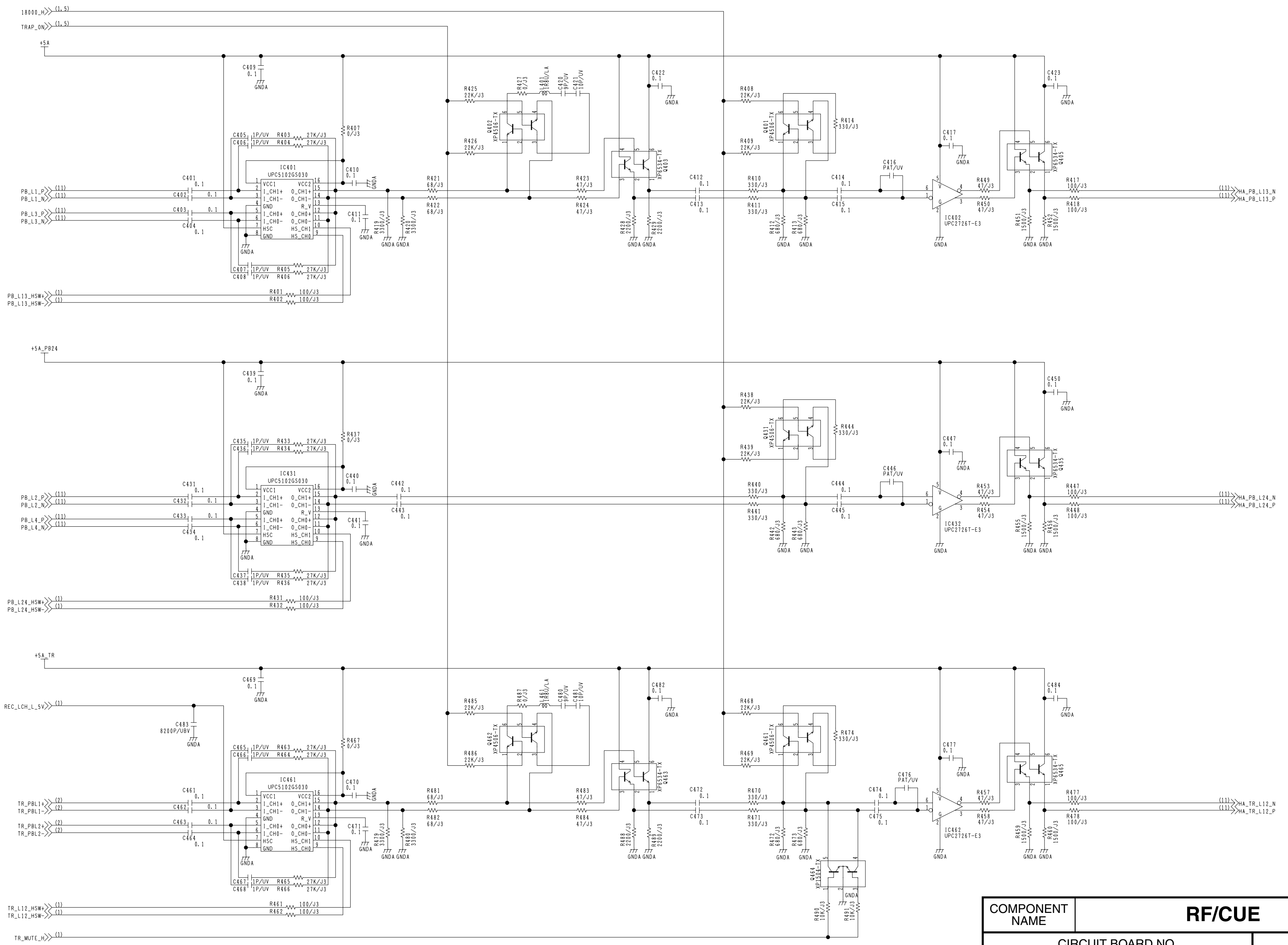
COMPONENT NAME	RF/CUE	3/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85215A	KR 5A0002(3/11)	
	SCM049	


18000_H
TRAP_ON
+5A
PB_L1_P
PB_L1_N
PB_L3_P
PB_L3_N
PB_L13_HSW+
PB_L13_HSW-
IC401
UPC5102GS030
Q402 XP4506-TX
Q403 XP6534-TX
Q401 XP4506-TX
IC402 UPC2726T-E3
Q405 XP6534-TX
HA_PB_L13_N
HA_PB_L13_P
+5A_PB24
PB_L2_P
PB_L2_N
PB_L4_P
PB_L4_N
PB_L24_HSW+
PB_L24_HSW-
IC431
UPC5102GS030
Q431 XP4506-TX
IC432 UPC2726T-E3
Q435 XP6534-TX
HA_PB_L24_N
HA_PB_L24_P
+5A_TR
REC_LCH_L_SV
TR_PBL1+
TR_PBL1-
TR_PBL2+
TR_PBL2-
TR_L12_HSW+
TR_L12_HSW-
TR_MUTE_H
IC461
UPC5102GS030
Q462 XP4506-TX
Q463 XP6534-TX
Q461 XP4506-TX
Q464 XP1504-TX
IC462 UPC2726T-E3
Q465 XP6534-TX
HA_TR_L12_N
HA_TR_L12_P
GNDA
A
B
C
D
E
F
G
H
I
J
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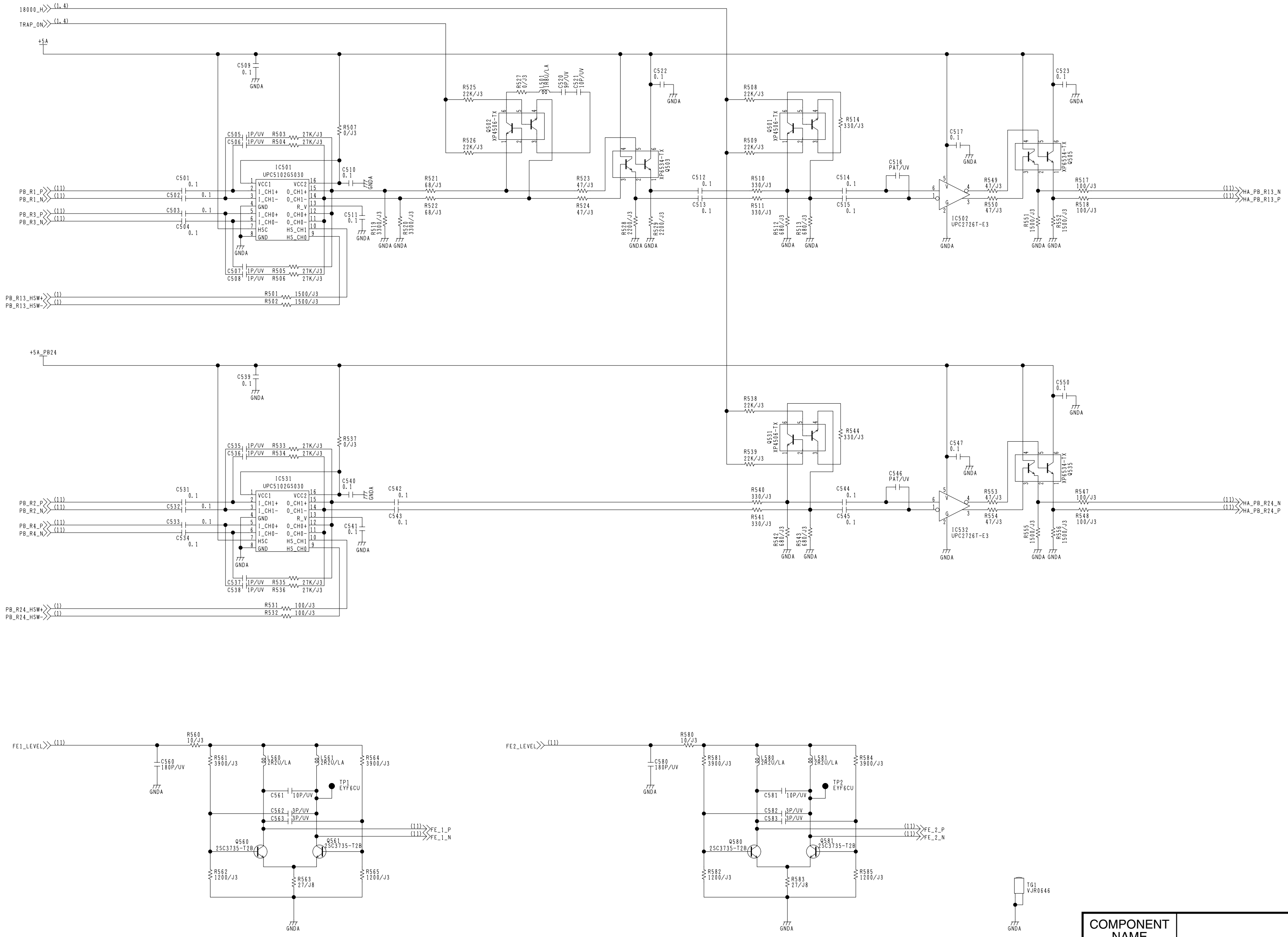
COMPONENT NAME	RF/CUE	4/11
CIRCUIT BOARD NO.		DRAWING NO.
VEP85215A		KR 5A0002(4/11)
		SCM050


18000_H
TRAP_ON
+5A
+5A_PB24
PB_R1_P
PB_R1_N
PB_R3_P
PB_R3_N
PB_R13_HSW+
PB_R13_HSW-
PB_R2_P
PB_R2_N
PB_R4_P
PB_R4_N
PB_R24_HSW+
PB_R24_HSW-
IC501 UPC5102GS030
IC531 UPC5102GS030
IC502 UPC2726T-E3
IC532 UPC2726T-E3
Q501 XP4506-TX
Q502 XP4506-TX
Q503 XP6534-TX
Q505 XP6534-TX
Q531 XP4506-TX
Q535 XP6534-TX
HA_PB_R13_N
HA_PB_R13_P
HA_PB_R24_N
HA_PB_R24_P
FE1_LEVEL
FE2_LEVEL
Q560 2SC3735-T2B
Q561 2SC3735-T2B
Q580 2SC3735-T2B
Q581 2SC3735-T2B
TP1 EYF6CU
TP2 EYF6CU
FE_1_P
FE_1_N
FE_2_P
FE_2_N
TG1 VJR0646
GNDA
A
B
C
D
E
F
G
H
I
J
1
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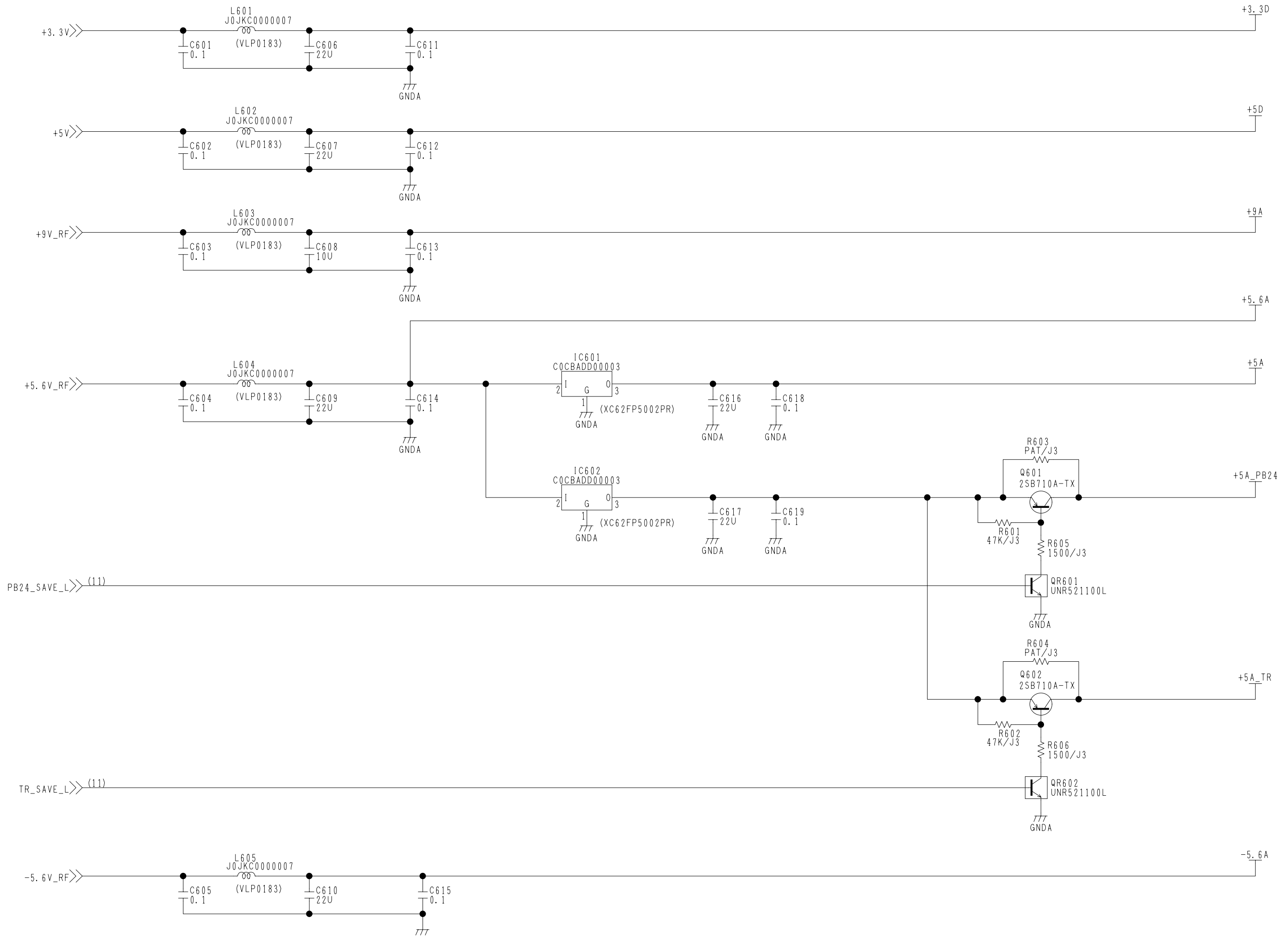
COMPONENT NAME	RF/CUE	5/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85215A	KR 5A0002(5/11)	
	SCM051	


+3.3V
L601
J0JKC0000007
(VLP0183)
C601
0.1
C606
22U
C611
0.1
GNDA
+3.3D
+5V
L602
J0JKC0000007
(VLP0183)
C602
0.1
C607
22U
C612
0.1
GNDA
+5D
+9V_RF
L603
J0JKC0000007
(VLP0183)
C603
0.1
C608
10U
C613
0.1
GNDA
+9A
+5.6A
+5.6V_RF
L604
J0JKC0000007
(VLP0183)
C604
0.1
C609
22U
C614
0.1
GNDA
IC601
C0CBADD00003
I
G
O
(XC62FP5002PR)
GNDA
C616
22U
C618
0.1
GNDA
+5A
IC602
C0CBADD00003
I
G
O
(XC62FP5002PR)
GNDA
C617
22U
C619
0.1
GNDA
R603
PAT/J3
Q601
2SB710A-TX
+5A_PB24
R601
47K/J3
R605
1500/J3
QR601
UNR521100L
GNDA
PB24_SAVE_L
(11)
R604
PAT/J3
Q602
2SB710A-TX
+5A_TR
R602
47K/J3
R606
1500/J3
QR602
UNR521100L
GNDA
TR_SAVE_L
(11)
-5.6V_RF
L605
J0JKC0000007
(VLP0183)
C605
0.1
C610
22U
C615
0.1
GNDA
-5.6A
A
B
C
D
E
F
G
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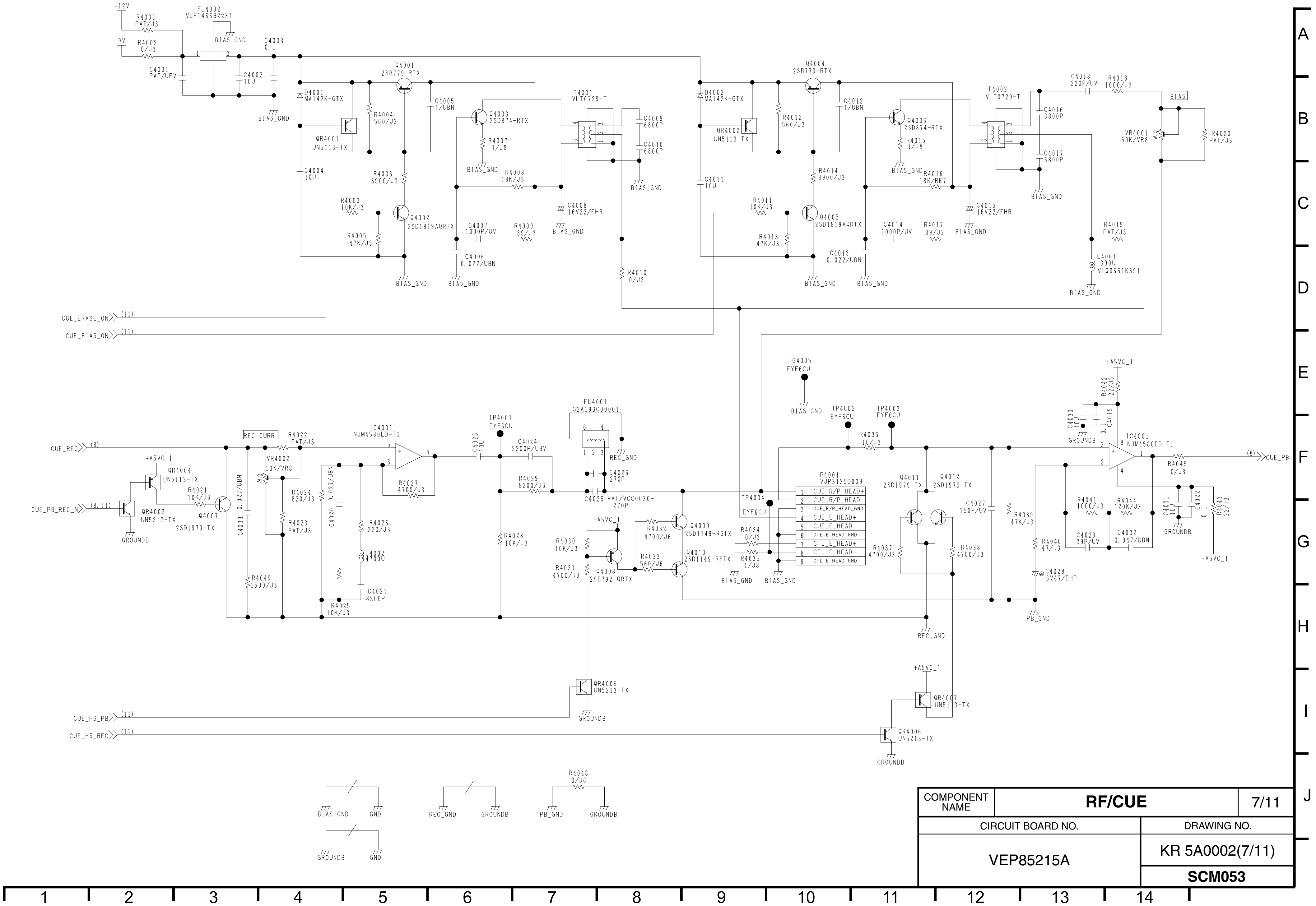
COMPONENT NAME	**RF/CUE**	6/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85215A	KR 5A0002(6/11) **SCM052**	


+12V
R4001 PAT/J3
FL4002 VLF1466B223T
BIAS_GND
+9V
R4002 0/J3
C4001 PAT/UFV
C4002 10U
C4003 0.1
D4001 MA142K-GTX
Q4001 2SB779-RTX
QR4001 UN5113-TX
R4004 560/J3
C4005 1/UBN
Q4003 2SD874-RTX
R4007 1/J8
T4001 VLT0729-T
C4009 6800P
C4010 6800P
C4004 10U
R4006 3900/J3
R4008 18K/J3
C4008 16V22/EHB
R4003 10K/J3
Q4002 2SD1819AQRTX
R4005 47K/J3
C4007 1000P/UV
R4009 39/J3
C4006 0.022/UBN
R4010 0/J3
D4002 MA142K-GTX
Q4004 2SB779-RTX
QR4002 UN5113-TX
R4012 560/J3
C4012 1/UBN
Q4006 2SD874-RTX
R4015 1/J8
T4002 VLT0729-T
C4016 6800P
C4017 6800P
C4011 10U
R4014 3900/J3
R4016 18K/RE7
C4015 16V22/EHB
R4011 10K/J3
Q4005 2SD1819AQRTX
R4013 47K/J3
C4014 1000P/UV
R4017 39/J3
C4013 0.022/UBN
C4018 220P/UV
R4018 1000/J3
BIAS
VR4001 50K/VR8
R4020 PAT/J3
R4019 PAT/J3
L4001 390U VLQ0651K391
CUE_ERASE_ON (11)
CUE_BIAS_ON (11)
TG4005 EYF6CU
+A5VC_1
R4042 22/J3
C4030 10U
C4019 0.1
GROUNDB
IC4001 NJM4580ED-T1
TP4001 EYF6CU
FL4001 G2A193C00001
REC_GND
TP4002 EYF6CU
TP4003 EYF6CU
R4036 10/J3
CUE_REC (8)
REC CURR
R4022 PAT/J3
VR4002 10K/VR8
C4023 10U
C4024 2200P/UBV
C4026 270P
C4025 PAT/VCC0030-T 270P
R4029 8200/J3
QR4004 UN5113-TX
R4021 10K/J3
CUE_PB_REC_N (8,11)
QR4003 UN5213-TX
Q4007 2SD1979-TX
C4033 0.027/UBN
R4024 820/J3
R4023 PAT/J3
C4020 0.027/UBN
R4026 220/J3
R4027 4700/J3
L4002 4700U
C4021 8200P
R4049 1500/J3
R4025 10K/J3
R4028 10K/J3
R4030 10K/J3
R4031 4700/J3
Q4008 2SB792-QRTX
R4032 4700/J6
R4033 560/J6
Q4009 2SD1149-RSTX
Q4010 2SD1149-RSTX
R4034 0/J3
R4035 1/J8
TP4004 EYF6CU
P4001 VJP3125D009
1 CUE_R/P_HEAD+
2 CUE_R/P_HEAD-
3 CUE_R/P_HEAD_GND
4 CUE_E_HEAD+
5 CUE_E_HEAD-
6 CUE_E_HEAD_GND
7 CTL_E_HEAD+
8 CTL_E_HEAD-
9 CTL_E_HEAD_GND
Q4011 2SD1979-TX
Q4012 2SD1979-TX
R4037 4700/J3
R4038 4700/J3
C4027 150P/UV
R4039 47K/J3
R4040 47/J3
C4028 6V47/EHP
PB_GND
R4041 1000/J3
R4044 120K/J3
C4029 39P/UV
C4032 0.047/UBN
R4045 0/J3
CUE_PB (8)
C4031 10U
C4022 0.1
R4043 22/J3
-A5VC_1
QR4005 UN5213-TX
CUE_HS_PB (11)
CUE_HS_REC (11)
QR4007 UN5113-TX
QR4006 UN5213-TX
R4048 0/J6
GND
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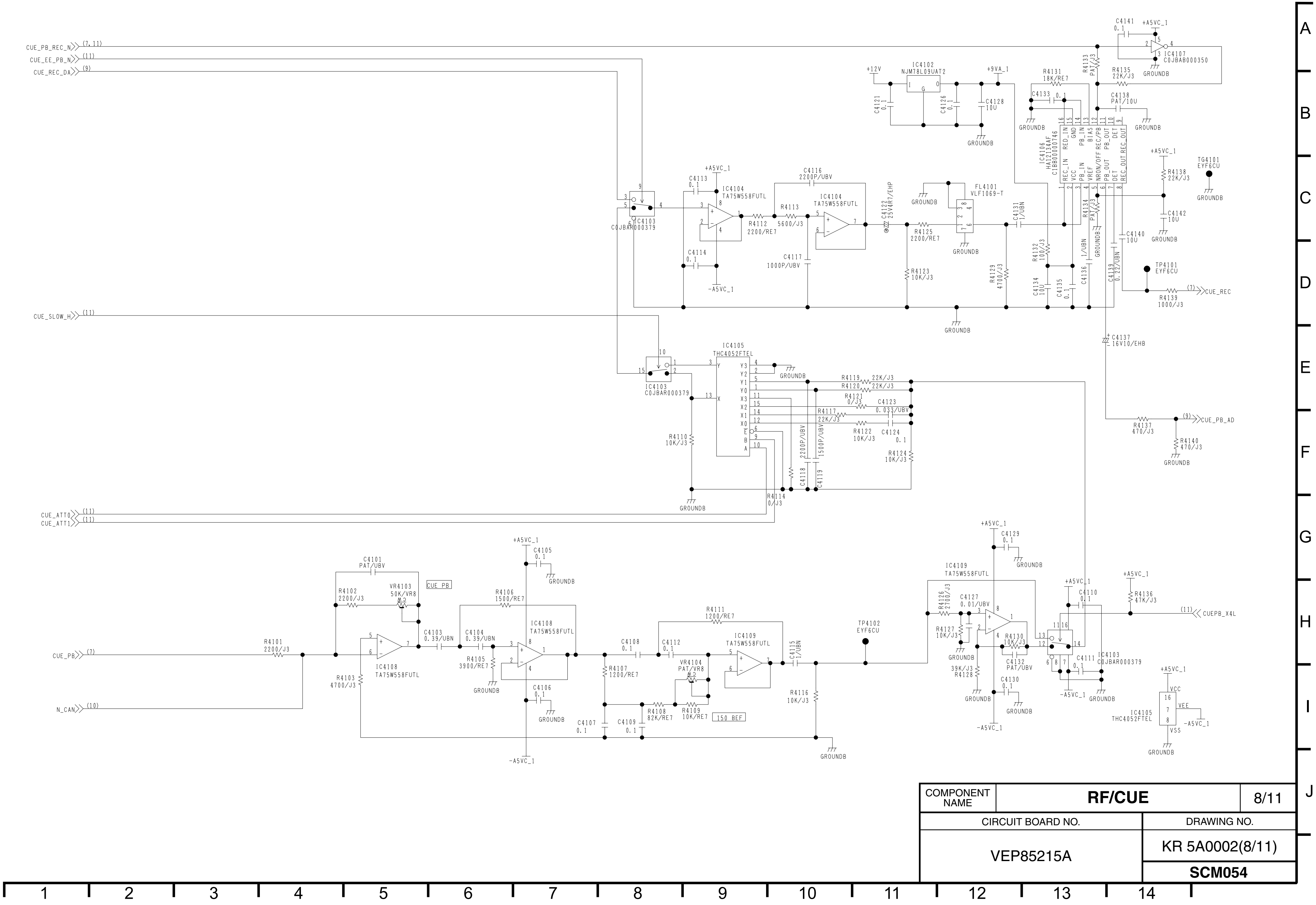
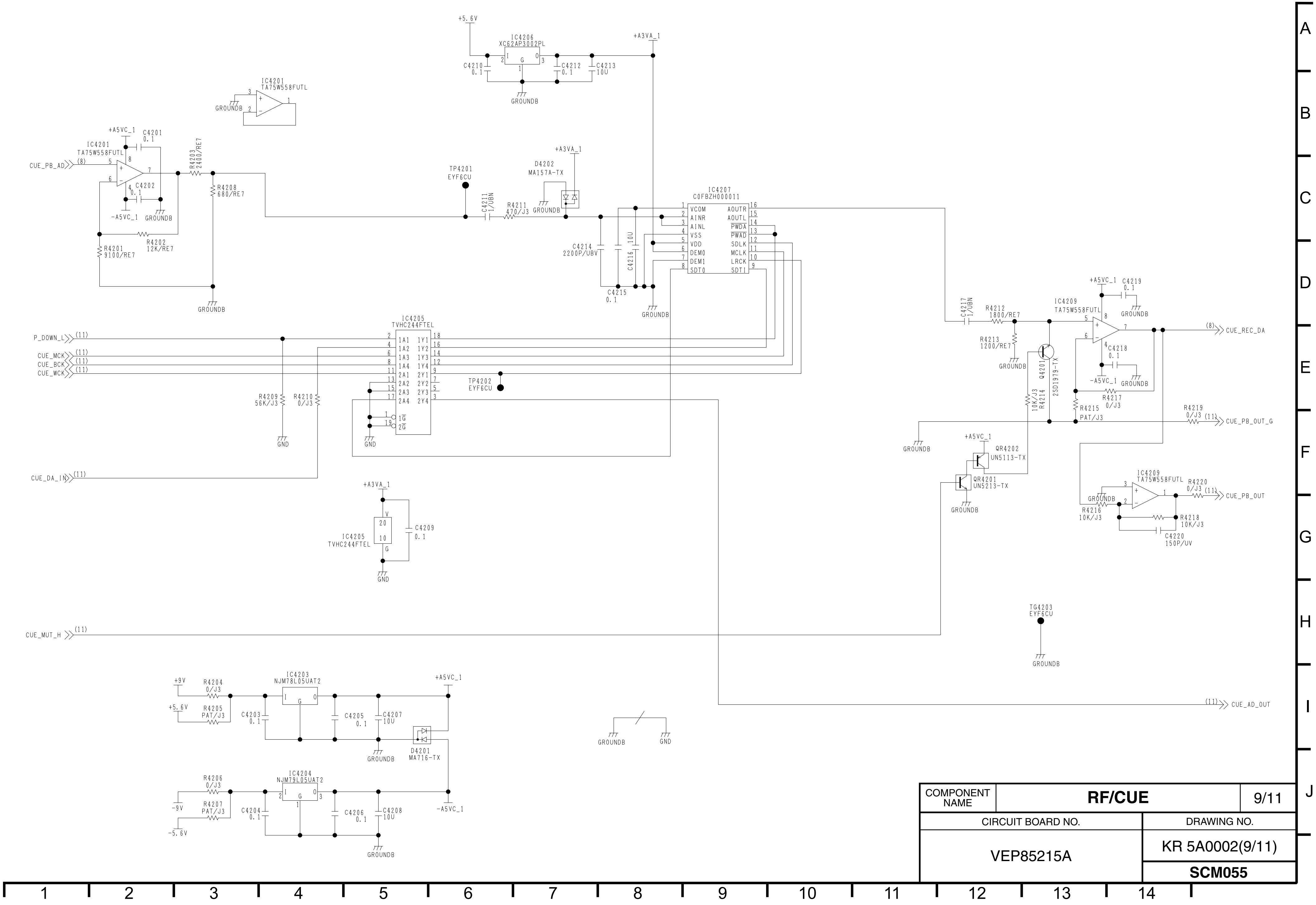
COMPONENT NAME	RF/CUE	7/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85215A	KR 5A0002(7/11)	
	SCM053	


CUE_PB_REC_N (7,11)
CUE_EE_PB_N (11)
CUE_REC_DA (9)
CUE_SLOW_H (11)
CUE_ATT0 (11)
CUE_ATT1 (11)
CUE_PB (7)
N_CAN (10)
C4141 0.1
+A5VC_1
IC4107 C0JBAB000350
GROUNDB
R4133 PAT/J3
R4135 22K/J3
IC4102 NJM78L09UAT2
+12V
+9VA_1
C4121 0.1
C4126 0.1
C4128 10U
R4131 18K/RE7
C4133 0.1
C4138 PAT/10U
IC4106 HA12134AF C1BB00000746
REC_IN VCC PB_IN VREF NRON/OFF PB_OUT DET REC_OUT
RED_IN GND PB_IN BIAS REC/PB PB_OUT DET REC_OUT
R4138 22K/J3
TG4101 EYF6CU
C4142 10U
+A5VC_1
C4113 0.1
IC4104 TA75W558FUTL
C4116 2200P/UBV
IC4104 TA75W558FUTL
R4113 5600/J3
R4112 2200/RE7
C4122 25V4R7/EHP
FL4101 VLF1069-T
C4131 1/UBN
R4125 2200/RE7
R4134 PAT/J3
C4140 10U
IC4103 C0JBAR000379
C4114 0.1
-A5VC_1
C4117 1000P/UBV
R4123 10K/J3
R4129 4700/J3
R4132 100/J3
C4134 10U
C4135 0.1
C4136 1/UBN
C4139 0.22/UBN
TP4101 EYF6CU
R4139 1000/J3
(7) CUE_REC
C4137 16V10/EHB
IC4105 THC4052FTEL
Y3 Y2 Y1 Y0 X3 X2 X1 X0 E B A
IC4103 C0JBAR000379
R4119 22K/J3
R4120 22K/J3
R4121 0/J3
C4123 0.033/UBV
R4117 22K/J3
R4122 10K/J3
C4124 0.1
R4124 10K/J3
C4118 2200P/UBV
C4119 1500P/UBV
R4110 10K/J3
R4114 0/J3
R4137 470/J3
(9) CUE_PB_AD
R4140 470/J3
C4101 PAT/UBV
R4102 2200/J3
VR4103 50K/VR8
CUE PB
R4101 2200/J3
R4103 4700/J3
IC4108 TA75W558FUTL
C4103 0.39/UBN
C4104 0.39/UBN
R4105 3900/RE7
R4106 1500/RE7
IC4108 TA75W558FUTL
C4105 0.1
C4106 0.1
R4111 1200/RE7
C4108 0.1
C4112 0.1
IC4109 TA75W558FUTL
VR4104 PAT/VR8
R4107 1200/RE7
R4108 82K/RE7
R4109 10K/RE7
150 BEF
C4107 0.1
C4109 0.1
C4115 1/UBN
R4116 10K/J3
TP4102 EYF6CU
IC4109 TA75W558FUTL
C4129 0.1
R4126 2700/J3
C4127 0.01/UBV
R4127 10K/J3
R4128 39K/J3
R4130 10K/J3
C4132 PAT/UBV
C4130 0.1
C4110 0.1
C4111 0.1
IC4103 C0JBAR000379
R4136 47K/J3
(11) CUEPB_X4L
IC4105 THC4052FTEL
VCC VEE VSS
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	**RF/CUE**	8/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85215A	KR 5A0002(8/11) **SCM054**	


CUE_PB_AD
IC4201 TA75W558FUTL
+A5VC_1
C4201 0.1
C4202 0.1
-A5VC_1
GROUNDB
R4203 2400/RE7
R4208 680/RE7
R4202 12K/RE7
R4201 9100/RE7
TP4201 EYF6CU
C4211 1/UBN
R4211 470/J3
D4202 MA157A-TX
+A3VA_1
IC4206 XC62AP3002PL
+5.6V
C4210 0.1
C4212 0.1
C4213 10U
IC4207 C0FBZH000011
VCOM
AINR
AINL
VSS
VDD
DEM0
DEM1
SDT0
AOUTR
AOUTL
PWDA
PWAD
SDLK
MCLK
LRCK
SDTI
C4214 2200P/UBV
C4215 0.1
C4216 10U
P_DOWN_L
CUE_MCK
CUE_BCK
CUE_WCK
IC4205 TVHC244FTEL
R4209 56K/J3
R4210 0/J3
GND
TP4202 EYF6CU
CUE_DA_IN
C4209 0.1
CUE_MUT_H
C4217 1/UBN
R4212 1800/RE7
R4213 1200/RE7
IC4209 TA75W558FUTL
C4219 0.1
C4218 0.1
Q4201 2SD1979-TX
R4214 10K/J3
R4215 PAT/J3
R4217 0/J3
R4219 0/J3
CUE_REC_DA
CUE_PB_OUT_G
QR4202 UN5113-TX
QR4201 UN5213-TX
R4216 10K/J3
R4218 10K/J3
R4220 0/J3
C4220 150P/UV
CUE_PB_OUT
TG4203 EYF6CU
CUE_AD_OUT
+9V
R4204 0/J3
R4205 PAT/J3
IC4203 NJM78L05UAT2
C4203 0.1
C4205 0.1
C4207 10U
D4201 MA716-TX
+A5VC_1
-9V
-5.6V
R4206 0/J3
R4207 PAT/J3
IC4204 NJM79L05UAT2
C4204 0.1
C4206 0.1
C4208 10U
-A5VC_1
A
B
C
D
E
F
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I
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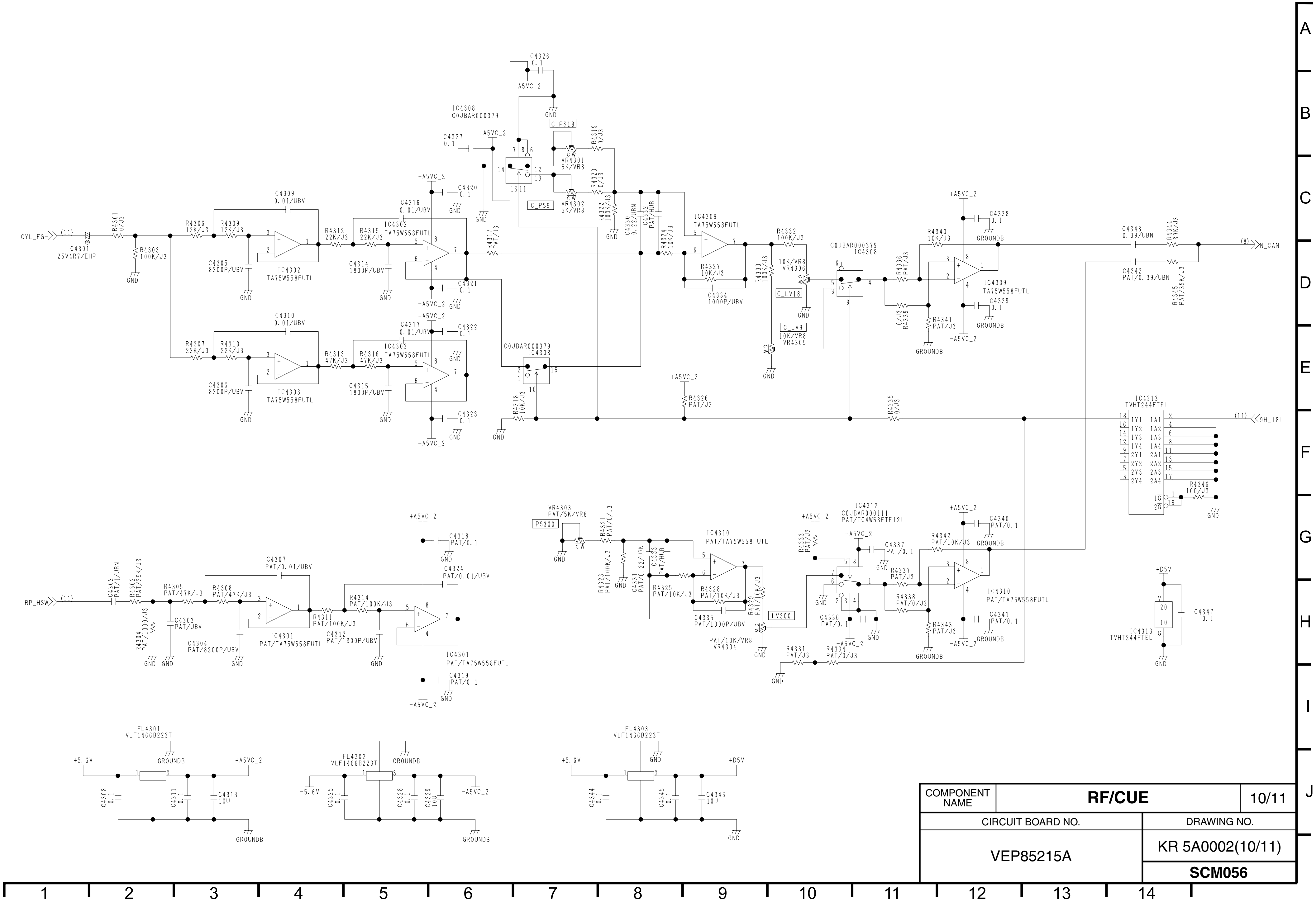
COMPONENT NAME	RF/CUE	9/11
CIRCUIT BOARD NO.		DRAWING NO.
VEP85215A		KR 5A0002(9/11)
		SCM055


A
B
C
D
E
F
G
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I
J
1
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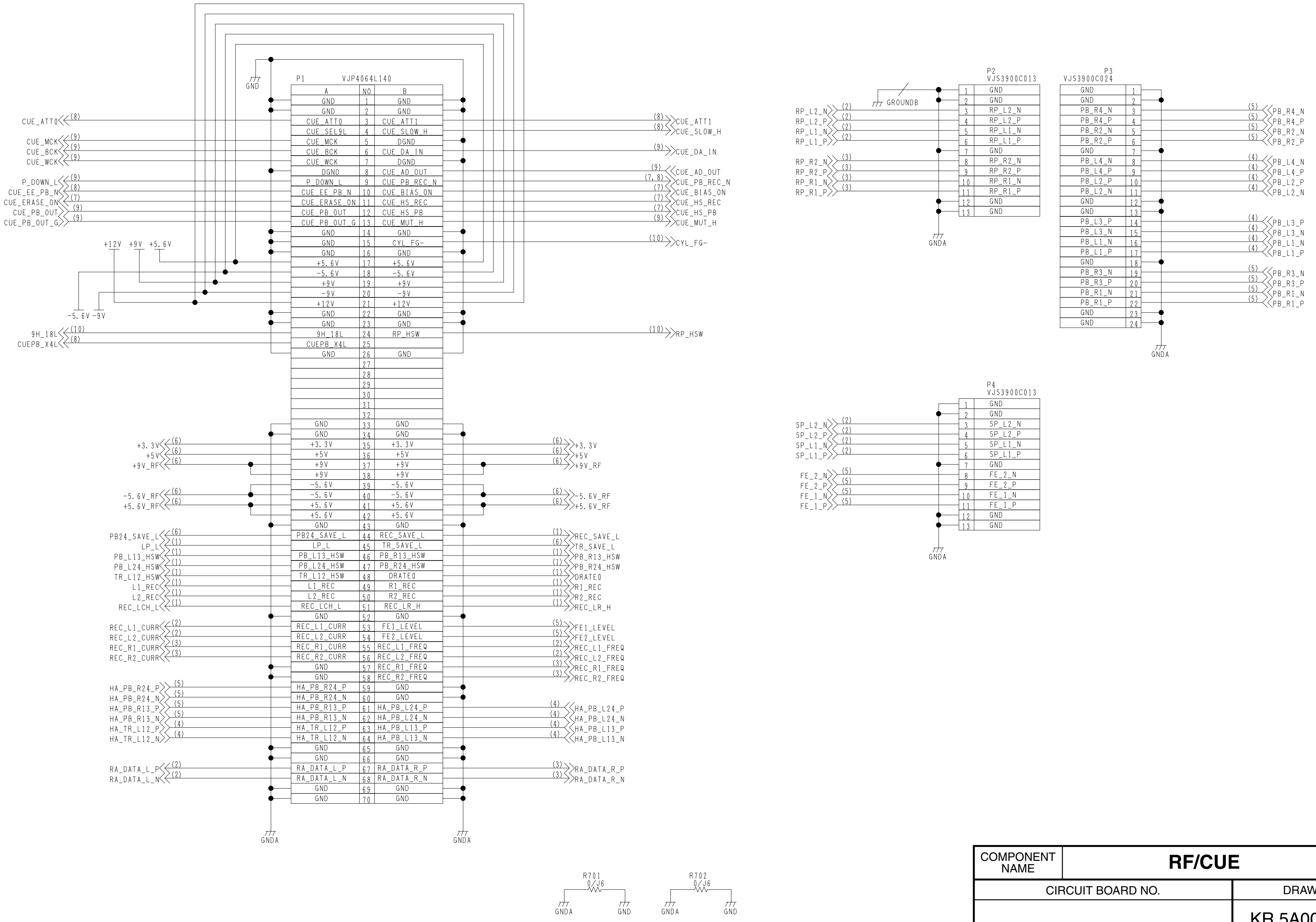
10
11
12
13
14
CYL_FG
(11)
C4301
25V4R7/EHP
R4301
0/J3
R4303
100K/J3
GND
R4306
12K/J3
R4309
12K/J3
C4305
8200P/UBV
C4309
0.01/UBV
IC4302
TA75W558FUTL
R4312
22K/J3
R4315
22K/J3
C4314
1800P/UBV
C4316
0.01/UBV
+A5VC_2
-A5VC_2
C4320
0.1
C4321
0.1
R4317
PAT/J3
R4307
22K/J3
R4310
22K/J3
C4306
8200P/UBV
C4310
0.01/UBV
IC4303
TA75W558FUTL
R4313
47K/J3
R4316
47K/J3
C4315
1800P/UBV
C4317
0.01/UBV
C4322
0.1
C4323
0.1
C0JBAR000379
IC4308
R4318
10K/J3
C4326
0.1
C4327
0.1
C_PS18
C_PS9
R4319
0/J3
R4320
0/J3
VR4301
5K/VR8
VR4302
5K/VR8
CW
R4322
100K/J3
C4330
0.22/UBN
C4332
PAT/HUB
R4324
10K/J3
IC4309
TA75W558FUTL
R4327
10K/J3
C4334
1000P/UBV
R4332
100K/J3
R4330
100K/J3
10K/VR8
VR4306
C_LV18
C_LV9
10K/VR8
VR4305
R4326
PAT/J3
R4335
0/J3
R4336
PAT/J3
R4339
0/J3
R4340
10K/J3
R4341
PAT/J3
C4338
0.1
C4339
0.1
GROUNDB
C4343
0.39/UBN
C4342
PAT/0.39/UBN
R4344
39K/J3
R4345
PAT/39K/J3
(8)
N_CAN
IC4313
TVHT244FTEL
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1G
2G
R4346
100/J3
(11)
9H_18L
RP_HSW
C4302
PAT/1/UBN
R4302
PAT/39K/J3
R4304
PAT/1000/J3
C4303
PAT/UBV
R4305
PAT/47K/J3
R4308
PAT/47K/J3
C4304
PAT/8200P/UBV
C4307
PAT/0.01/UBV
IC4301
PAT/TA75W558FUTL
R4311
PAT/100K/J3
R4314
PAT/100K/J3
C4312
PAT/1800P/UBV
C4324
PAT/0.01/UBV
C4318
PAT/0.1
C4319
PAT/0.1
VR4303
PAT/5K/VR8
PS300
R4321
PAT/0/J3
R4323
PAT/100K/J3
C4331
PAT/0.22/UBN
C4333
PAT/HUB
R4325
PAT/10K/J3
IC4310
PAT/TA75W558FUTL
R4328
PAT/10K/J3
C4335
PAT/1000P/UBV
R4329
PAT/10K/J3
LV300
PAT/10K/VR8
VR4304
R4331
PAT/J3
R4333
PAT/J3
R4334
PAT/0/J3
IC4312
C0JBAR000111
PAT/TC4W53FTE12L
C4336
PAT/0.1
C4337
PAT/0.1
R4337
PAT/J3
R4338
PAT/0/J3
R4342
PAT/10K/J3
R4343
PAT/J3
C4340
PAT/0.1
C4341
PAT/0.1
+D5V
C4347
0.1
FL4301
VLF1466B223T
+5.6V
C4308
0.1
C4311
0.1
C4313
10U
FL4302
VLF1466B223T
-5.6V
C4325
0.1
C4328
0.1
C4329
10U
FL4303
VLF1466B223T
C4344
0.1
C4345
0.1
C4346
10U

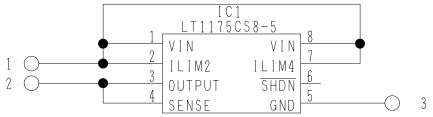
COMPONENT NAME	RF/CUE	10/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85215A	KR 5A0002(10/11)	
	SCM056	


P1 VJP4064L140
A NO B
GND 1 GND
GND 2 GND
CUE_ATT0 3 CUE_ATT1
CUE_SEL9L 4 CUE_SLOW_H
CUE_MCK 5 DGND
CUE_BCK 6 CUE_DA_IN
CUE_WCK 7 DGND
DGND 8 CUE_AD_OUT
P_DOWN_L 9 CUE_PB_REC_N
CUE_EE_PB_N 10 CUE_BIAS_ON
CUE_ERASE_ON 11 CUE_HS_REC
CUE_PB_OUT 12 CUE_HS_PB
CUE_PB_OUT_G 13 CUE_MUT_H
GND 14 GND
GND 15 CYL_FG-
GND 16 GND
+5.6V 17 +5.6V
-5.6V 18 -5.6V
+9V 19 +9V
-9V 20 -9V
+12V 21 +12V
GND 22 GND
GND 23 GND
9H_18L 24 RP_HSW
CUEPB_X4L 25
GND 26 GND
27
28
29
30
31
32
GND 33 GND
GND 34 GND
+3.3V 35 +3.3V
+5V 36 +5V
+9V 37 +9V
+9V 38 +9V
-5.6V 39 -5.6V
-5.6V 40 -5.6V
+5.6V 41 +5.6V
+5.6V 42 +5.6V
GND 43 GND
PB24_SAVE_L 44 REC_SAVE_L
LP_L 45 TR_SAVE_L
PB_L13_HSW 46 PB_R13_HSW
PB_L24_HSW 47 PB_R24_HSW
TR_L12_HSW 48 DRATE0
L1_REC 49 R1_REC
L2_REC 50 R2_REC
REC_LCH_L 51 REC_LR_H
GND 52 GND
REC_L1_CURR 53 FE1_LEVEL
REC_L2_CURR 54 FE2_LEVEL
REC_R1_CURR 55 REC_L1_FREQ
REC_R2_CURR 56 REC_L2_FREQ
GND 57 REC_R1_FREQ
GND 58 REC_R2_FREQ
HA_PB_R24_P 59 GND
HA_PB_R24_N 60 GND
HA_PB_R13_P 61 HA_PB_L24_P
HA_PB_R13_N 62 HA_PB_L24_N
HA_TR_L12_P 63 HA_PB_L13_P
HA_TR_L12_N 64 HA_PB_L13_N
GND 65 GND
GND 66 GND
RA_DATA_L_P 67 RA_DATA_R_P
RA_DATA_L_N 68 RA_DATA_R_N
GND 69 GND
GND 70 GND
GND
GNDA
GNDA
CUE_ATT0 (8)
CUE_MCK (9)
CUE_BCK (9)
CUE_WCK (9)
P_DOWN_L (9)
CUE_EE_PB_N (8)
CUE_ERASE_ON (7)
CUE_PB_OUT (9)
CUE_PB_OUT_G (9)
+12V +9V +5.6V
-5.6V -9V
9H_18L (10)
CUEPB_X4L (8)
(8) CUE_ATT1
(8) CUE_SLOW_H
(9) CUE_DA_IN
(9) CUE_AD_OUT
(7,8) CUE_PB_REC_N
(7) CUE_BIAS_ON
(7) CUE_HS_REC
(7) CUE_HS_PB
(9) CUE_MUT_H
(10) CYL_FG-
(10) RP_HSW
+3.3V (6)
+5V (6)
+9V_RF (6)
-5.6V_RF (6)
+5.6V_RF (6)
PB24_SAVE_L (6)
LP_L (1)
PB_L13_HSW (1)
PB_L24_HSW (1)
TR_L12_HSW (1)
L1_REC (1)
L2_REC (1)
REC_LCH_L (1)
REC_L1_CURR (2)
REC_L2_CURR (2)
REC_R1_CURR (3)
REC_R2_CURR (3)
HA_PB_R24_P (5)
HA_PB_R24_N (5)
HA_PB_R13_P (5)
HA_PB_R13_N (5)
HA_TR_L12_P (4)
HA_TR_L12_N (4)
RA_DATA_L_P (2)
RA_DATA_L_N (2)
(6) +3.3V
(6) +5V
(6) +9V_RF
(6) -5.6V_RF
(6) +5.6V_RF
(1) REC_SAVE_L
(6) TR_SAVE_L
(1) PB_R13_HSW
(1) PB_R24_HSW
(1) DRATE0
(1) R1_REC
(1) R2_REC
(1) REC_LR_H
(5) FE1_LEVEL
(5) FE2_LEVEL
(2) REC_L1_FREQ
(2) REC_L2_FREQ
(3) REC_R1_FREQ
(3) REC_R2_FREQ
(4) HA_PB_L24_P
(4) HA_PB_L24_N
(4) HA_PB_L13_P
(4) HA_PB_L13_N
(3) RA_DATA_R_P
(3) RA_DATA_R_N
P2 VJS3900C013
1 GND
2 GND
3 RP_L2_N
4 RP_L2_P
5 RP_L1_N
6 RP_L1_P
7 GND
8 RP_R2_N
9 RP_R2_P
10 RP_R1_N
11 RP_R1_P
12 GND
13 GND
GROUNDB
GNDA
RP_L2_N (2)
RP_L2_P (2)
RP_L1_N (2)
RP_L1_P (2)
RP_R2_N (3)
RP_R2_P (3)
RP_R1_N (3)
RP_R1_P (3)
P3 VJS3900C024
GND 1
GND 2
PB_R4_N 3
PB_R4_P 4
PB_R2_N 5
PB_R2_P 6
GND 7
PB_L4_N 8
PB_L4_P 9
PB_L2_P 10
PB_L2_N 11
GND 12
GND 13
PB_L3_P 14
PB_L3_N 15
PB_L1_N 16
PB_L1_P 17
GND 18
PB_R3_N 19
PB_R3_P 20
PB_R1_N 21
PB_R1_P 22
GND 23
GND 24
GNDA
(5) PB_R4_N
(5) PB_R4_P
(5) PB_R2_N
(5) PB_R2_P
(4) PB_L4_N
(4) PB_L4_P
(4) PB_L2_P
(4) PB_L2_N
(4) PB_L3_P
(4) PB_L3_N
(4) PB_L1_N
(4) PB_L1_P
(5) PB_R3_N
(5) PB_R3_P
(5) PB_R1_N
(5) PB_R1_P
P4 VJS3900C013
1 GND
2 GND
3 SP_L2_N
4 SP_L2_P
5 SP_L1_N
6 SP_L1_P
7 GND
8 FE_2_N
9 FE_2_P
10 FE_1_N
11 FE_1_P
12 GND
13 GND
GNDA
SP_L2_N (2)
SP_L2_P (2)
SP_L1_N (2)
SP_L1_P (2)
FE_2_N (5)
FE_2_P (5)
FE_1_N (5)
FE_1_P (5)
R701 0/J6
GNDA GND
R702 0/J6
GNDA GND

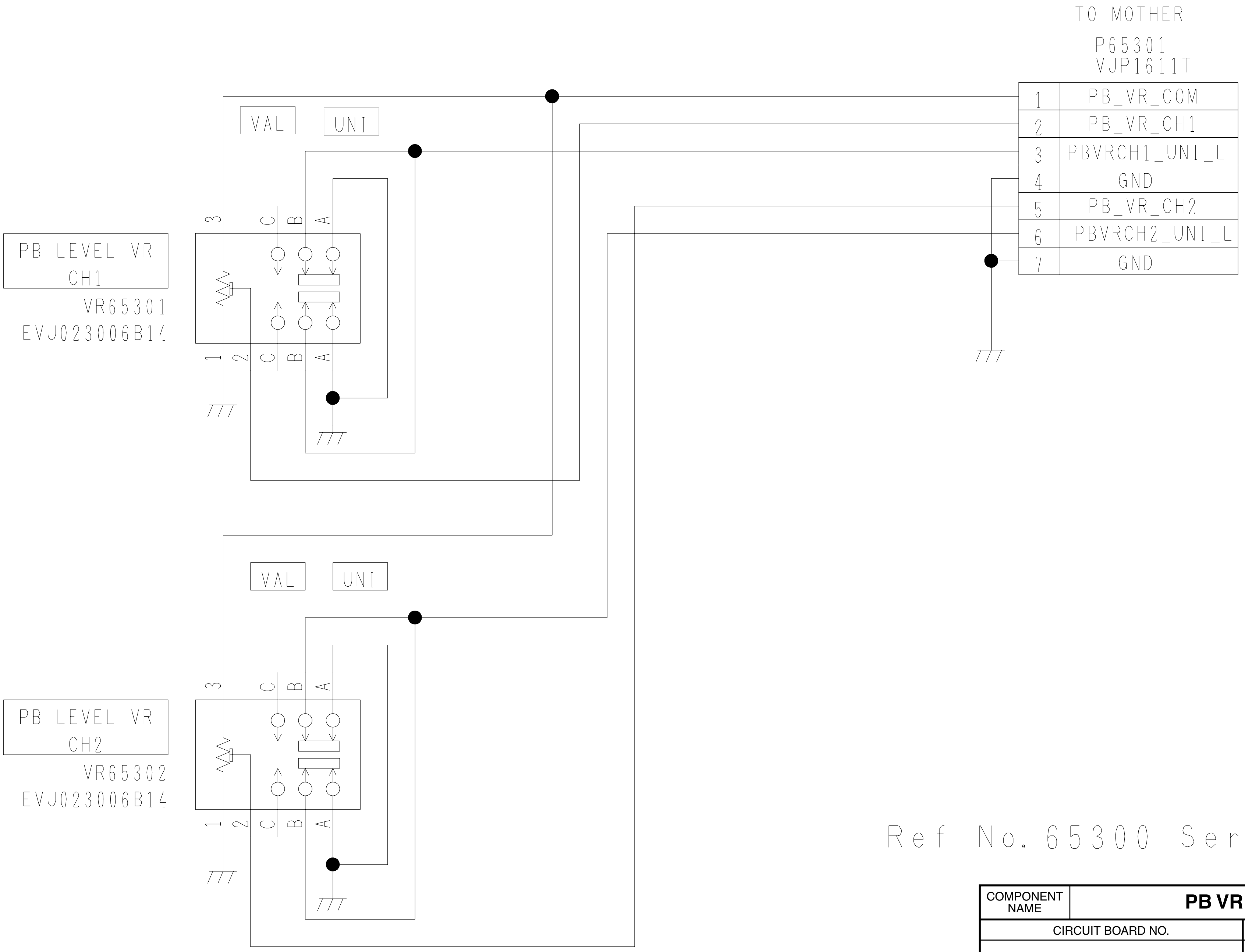
COMPONENT NAME	RF/CUE	11/11
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85215A	KR 5A0002(11/11)	
	SCM057	

A
B
C
D
E
F
G
H
I
J

1 2 3 4 5 6 7 8 9 10 11 12 13 14

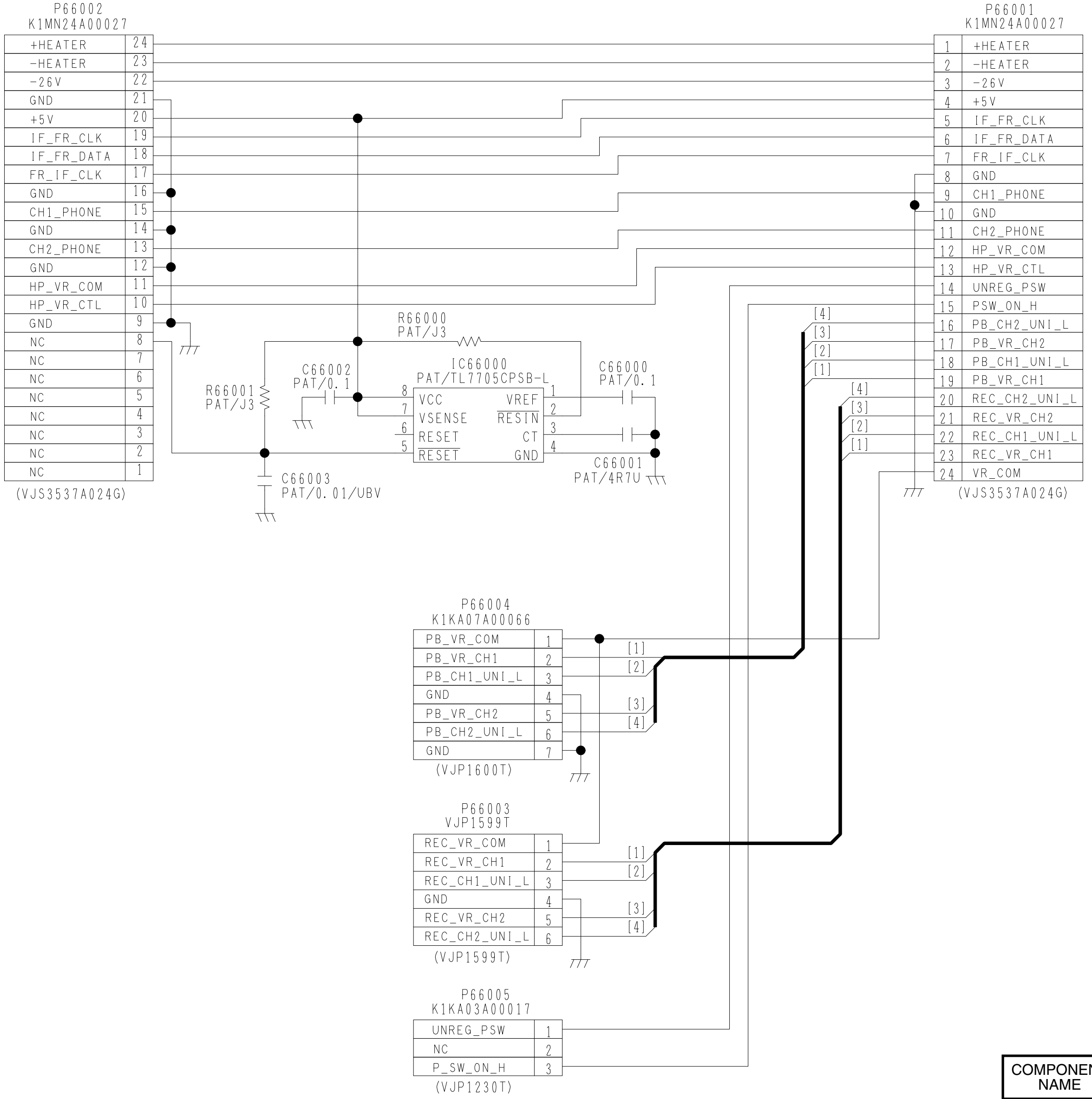

IC1
LT1175CS8-5
1
2
3
4
VIN
ILIM2
OUTPUT
SENSE
8
7
6
5
VIN
ILIM4
SHDN
GND
1
2
3

COMPONENT NAME	**RFEQ_SUB**	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP85218A		KR 5A0011(1/1)
		SCM058

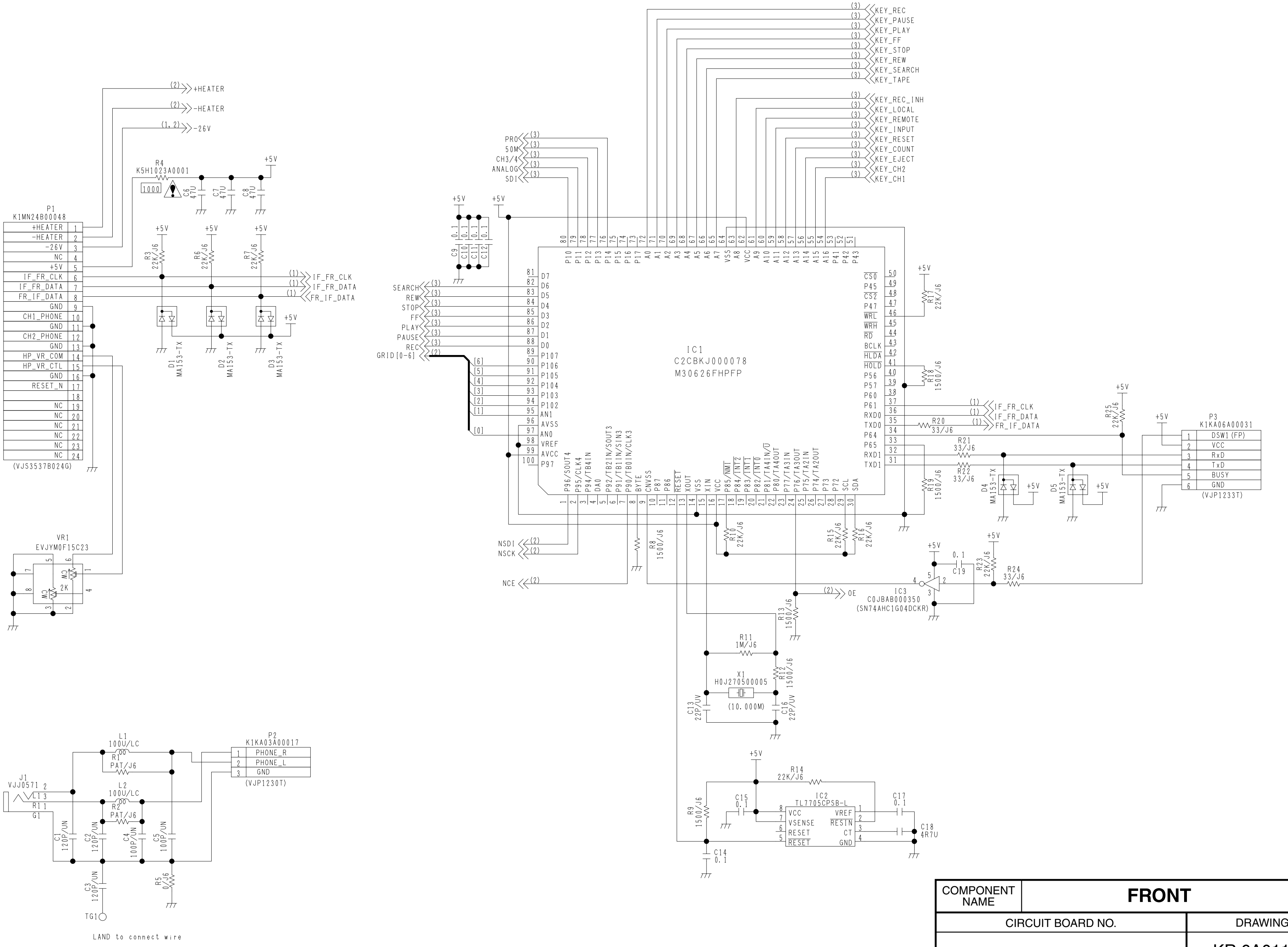

TO MOTHER
P65301
VJP1611T
1 PB_VR_COM
2 PB_VR_CH1
3 PBVRCH1_UNI_L
4 GND
5 PB_VR_CH2
6 PBVRCH2_UNI_L
7 GND
VAL
UNI
PB LEVEL VR
CH1
VR65301
EVU023006B14
3
C B A
1 2 C B A
VAL
UNI
PB LEVEL VR
CH2
VR65302
EVU023006B14
3
C B A
1 2 C B A

Ref No.65300 Series.

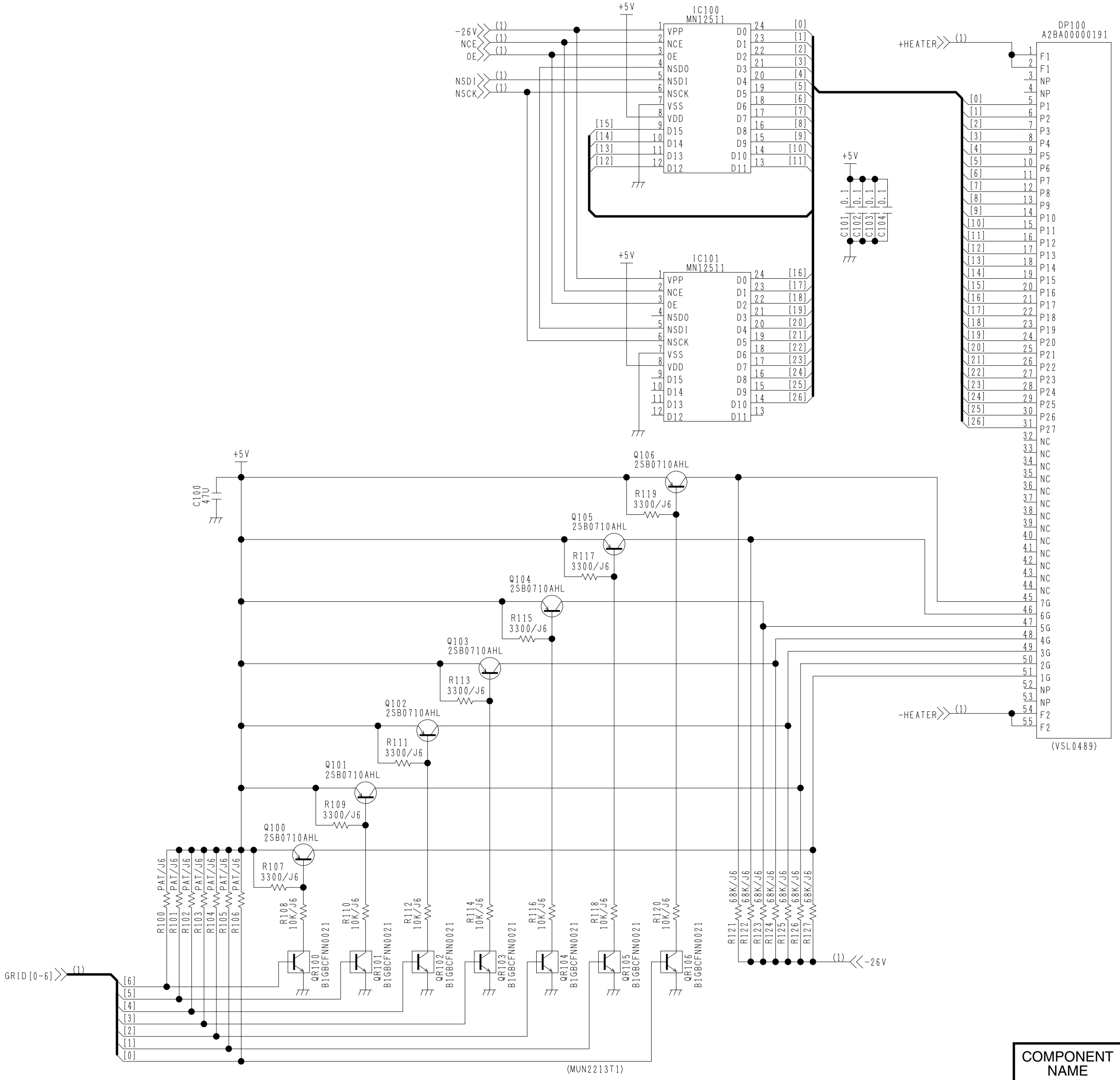
COMPONENT NAME	**PB VR**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86283A	(1/1) **SCM101**	


P66002
K1MN24A00027
+HEATER 24
-HEATER 23
-26V 22
GND 21
+5V 20
IF_FR_CLK 19
IF_FR_DATA 18
FR_IF_CLK 17
GND 16
CH1_PHONE 15
GND 14
CH2_PHONE 13
GND 12
HP_VR_COM 11
HP_VR_CTL 10
GND 9
NC 8
NC 7
NC 6
NC 5
NC 4
NC 3
NC 2
NC 1
(VJS3537A024G)
P66001
K1MN24A00027
1 +HEATER
2 -HEATER
3 -26V
4 +5V
5 IF_FR_CLK
6 IF_FR_DATA
7 FR_IF_CLK
8 GND
9 CH1_PHONE
10 GND
11 CH2_PHONE
12 HP_VR_COM
13 HP_VR_CTL
14 UNREG_PSW
15 PSW_ON_H
16 PB_CH2_UNI_L
17 PB_VR_CH2
18 PB_CH1_UNI_L
19 PB_VR_CH1
20 REC_CH2_UNI_L
21 REC_VR_CH2
22 REC_CH1_UNI_L
23 REC_VR_CH1
24 VR_COM
(VJS3537A024G)
R66000
PAT/J3
R66001
PAT/J3
C66002
PAT/0.1
IC66000
PAT/TL7705CPSB-L
8 VCC
7 VSENSE
6 RESET
5 RESET
1 VREF
2 RESIN
3 CT
4 GND
C66000
PAT/0.1
C66001
PAT/4R7U
C66003
PAT/0.01/UBV
[4]
[3]
[2]
[1]
[4]
[3]
[2]
[1]
P66004
K1KA07A00066
PB_VR_COM 1
PB_VR_CH1 2
PB_CH1_UNI_L 3
GND 4
PB_VR_CH2 5
PB_CH2_UNI_L 6
GND 7
(VJP1600T)
[1]
[2]
[3]
[4]
P66003
VJP1599T
REC_VR_COM 1
REC_VR_CH1 2
REC_CH1_UNI_L 3
GND 4
REC_VR_CH2 5
REC_CH2_UNI_L 6
(VJP1599T)
[1]
[2]
[3]
[4]
P66005
K1KA03A00017
UNREG_PSW 1
NC 2
P_SW_ON_H 3
(VJP1230T)

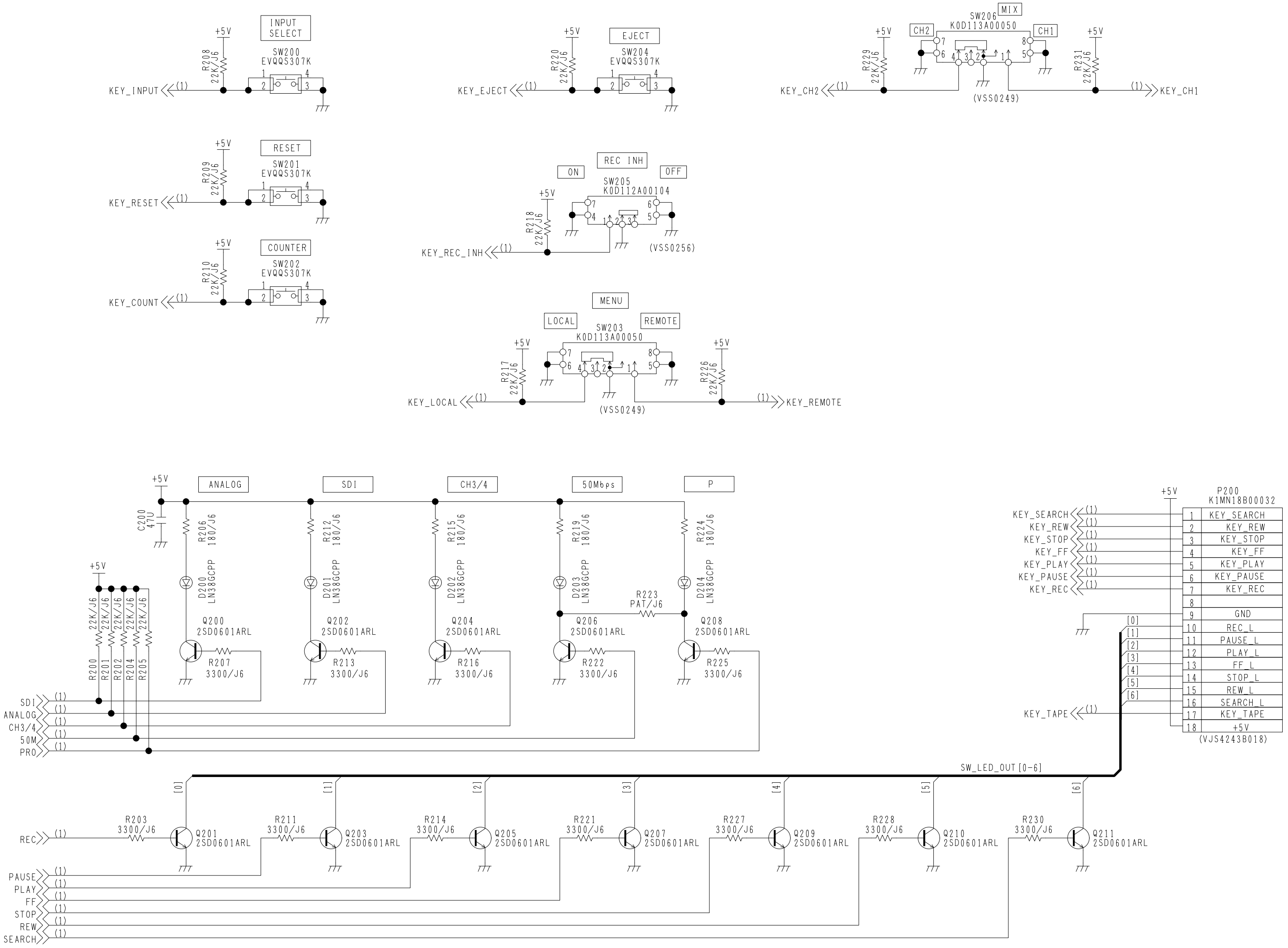
COMPONENT NAME	**FRONT CONNECT**	01/1
CIRCUIT BOARD NO.		DRAWING NO.
VEP86336A		KR 6A0118(1/1) **SCM104**


KEY_REC
KEY_PAUSE
KEY_PLAY
KEY_FF
KEY_STOP
KEY_REW
KEY_SEARCH
KEY_TAPE
KEY_REC_INH
KEY_LOCAL
KEY_REMOTE
KEY_INPUT
KEY_RESET
KEY_COUNT
KEY_EJECT
KEY_CH2
KEY_CH1
+HEATER
-HEATER
-26V
PRO
50M
CH3/4
ANALOG
SDI
R4
K5H1023A0001
1000
C6 47U
C7 47U
C8 47U
+5V
P1
K1MN24B00048
+HEATER
-HEATER
-26V
NC
+5V
IF_FR_CLK
IF_FR_DATA
FR_IF_DATA
GND
CH1_PHONE
GND
CH2_PHONE
GND
HP_VR_COM
HP_VR_CTL
GND
RESET_N
NC
(VJS3537B024G)
R3 22K/J6
R6 22K/J6
R7 22K/J6
IF_FR_CLK
IF_FR_DATA
FR_IF_DATA
D1 MA153-TX
D2 MA153-TX
D3 MA153-TX
C9 0.1
C10 0.1
C11 0.1
C12 0.1
SEARCH
REW
STOP
FF
PLAY
PAUSE
REC
GRID[0-6]
IC1
C2CBKJ000078
M30626FHPFP
P10 P11 P12 P13 P14 P15 P16 P17 A0 A1 A2 A3 A4 A5 A6 A7 VSS A8 VCC A9 A10 A11 A12 A13 A14 A15 A16 P41 P42 P43
D7 D6 D5 D4 D3 D2 D1 D0 P107 P106 P105 P104 P103 P102 AN1 AVSS AN0 VREF AVCC P97
P96/SOUT4 P95/CLK4 P94/TB4IN DA0 P92/TB2IN/SOUT3 P91/TB1IN/SIN3 P90/TB0IN/CLK3 BYTE CNVSS P87 P86 RESET XOUT VSS XIN VCC P85/NMI P84/INT2 P83/INT1 P82/INT0 P81/TA4IN/U P80/TA4OUT P77/TA3IN P76/TA3OUT P75/TA2IN P74/TA2OUT P73 P72 SCL SDA
CS0 P45 CS2 P47 WRL WRH RD BCLK HLDA HOLD P56 P57 P60 P61 RXD0 TXD0 P64 P65 RXD1 TXD1
R17 22K/J6
R18 1500/J6
R19 1500/J6
R20 33/J6
R21 33/J6
R22 33/J6
R25 22K/J6
D4 MA153-TX
D5 MA153-TX
P3
K1KA06A00031
DSW1(FP)
VCC
RxD
TxD
BUSY
GND
(VJP1233T)
NSDI
NSCK
NCE
R8 1500/J6
R10 22K/J6
R15 22K/J6
R16 22K/J6
C19 0.1
R23 22K/J6
R24 33/J6
IC3
C0JBAB000350
(SN74AHC1G04DCKR)
OE
R13 1500/J6
R11 1M/J6
R12 1500/J6
X1
H0J270500005
(10.000M)
C13 22P/UV
C16 22P/UV
VR1
EVJYM0F15C23
2K
R14 22K/J6
IC2
TL7705CPSB-L
VCC
VSENSE
RESET
RESET
VREF
RESIN
CT
GND
R9 1500/J6
C15 0.1
C17 0.1
C18 4R7U
C14 0.1
L1 100U/LC
R1 PAT/J6
L2 100U/LC
R2 PAT/J6
P2
K1KA03A00017
PHONE_R
PHONE_L
GND
(VJP1230T)
J1
VJJ0571
C1 120P/UN
C2 120P/UN
C3 120P/UN
C4 100P/UN
C5 100P/UN
R5 0/J6
TG1
LAND to connect wire
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	**FRONT**	01/3
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86343A	KR 6A0116(1/3) **SCM076**	

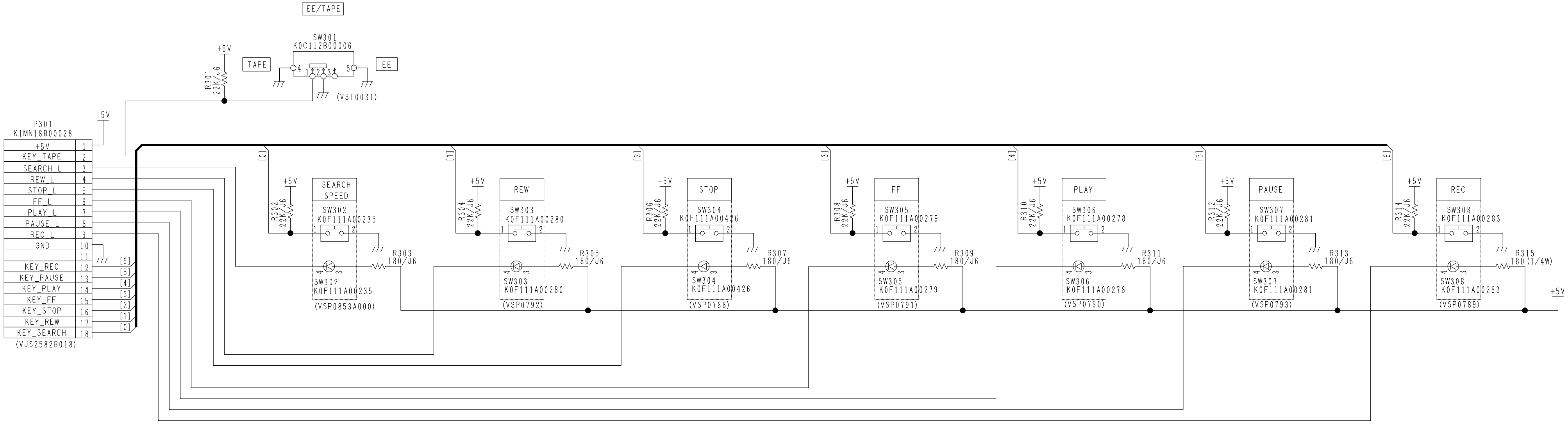

IC100
MN12511
IC101
MN12511
VPP
NCE
OE
NSDO
NSDI
NSCK
VSS
VDD
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
-26V
NCE
OE
NSDI
NSCK
+5V
(1)
DP100
A2BA00000191
+HEATER
-HEATER
F1
F2
NP
NC
P1
P27
7G
6G
5G
4G
3G
2G
1G
(VSL0489)
C101
C102
C103
C104
0.1
C100
47U
Q100
Q101
Q102
Q103
Q104
Q105
Q106
2SB0710AHL
R107
R109
R111
R113
R115
R117
R119
3300/J6
R108
R110
R112
R114
R116
R118
R120
10K/J6
R100
R101
R102
R103
R104
R105
R106
PAT/J6
R121
R122
R123
R124
R125
R126
R127
68K/J6
QR100
QR101
QR102
QR103
QR104
QR105
QR106
B1GBCFNN0021
GRID[0-6]
(MUN2213T1)

COMPONENT NAME	FRONT	02/3
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86343A	KR 6A0116(2/3) SCM077	


INPUT SELECT
SW200 EVQQS307K
R208 22K/J6
+5V
KEY_INPUT
RESET
SW201 EVQQS307K
R209 22K/J6
KEY_RESET
COUNTER
SW202 EVQQS307K
R210 22K/J6
KEY_COUNT
EJECT
SW204 EVQQS307K
R220 22K/J6
KEY_EJECT
REC INH
ON
OFF
SW205 K0D112A00104
R218 22K/J6
KEY_REC_INH
(VSS0256)
MENU
LOCAL
REMOTE
SW203 K0D113A00050
R217 22K/J6
R226 22K/J6
KEY_LOCAL
KEY_REMOTE
(VSS0249)
MIX
CH2
CH1
SW206 K0D113A00050
R229 22K/J6
R231 22K/J6
KEY_CH2
KEY_CH1
(VSS0249)
ANALOG
SDI
CH3/4
50Mbps
P
C200 47U
R206 180/J6
R212 180/J6
R215 180/J6
R219 180/J6
R224 180/J6
D200 LN38GCPP
D201 LN38GCPP
D202 LN38GCPP
D203 LN38GCPP
D204 LN38GCPP
R223 PAT/J6
Q200 2SD0601ARL
Q202 2SD0601ARL
Q204 2SD0601ARL
Q206 2SD0601ARL
Q208 2SD0601ARL
R207 3300/J6
R213 3300/J6
R216 3300/J6
R222 3300/J6
R225 3300/J6
R200 R201 R202 R204 R205 22K/J6
SDI
ANALOG
CH3/4
50M
PRO
SW_LED_OUT[0-6]
REC
PAUSE
PLAY
FF
STOP
REW
SEARCH
R203 3300/J6
R211 3300/J6
R214 3300/J6
R221 3300/J6
R227 3300/J6
R228 3300/J6
R230 3300/J6
Q201 2SD0601ARL
Q203 2SD0601ARL
Q205 2SD0601ARL
Q207 2SD0601ARL
Q209 2SD0601ARL
Q210 2SD0601ARL
Q211 2SD0601ARL
P200 K1MN18B00032
1 KEY_SEARCH
2 KEY_REW
3 KEY_STOP
4 KEY_FF
5 KEY_PLAY
6 KEY_PAUSE
7 KEY_REC
8
9 GND
10 REC_L
11 PAUSE_L
12 PLAY_L
13 FF_L
14 STOP_L
15 REW_L
16 SEARCH_L
17 KEY_TAPE
18 +5V
(VJS4243B018)
KEY_TAPE

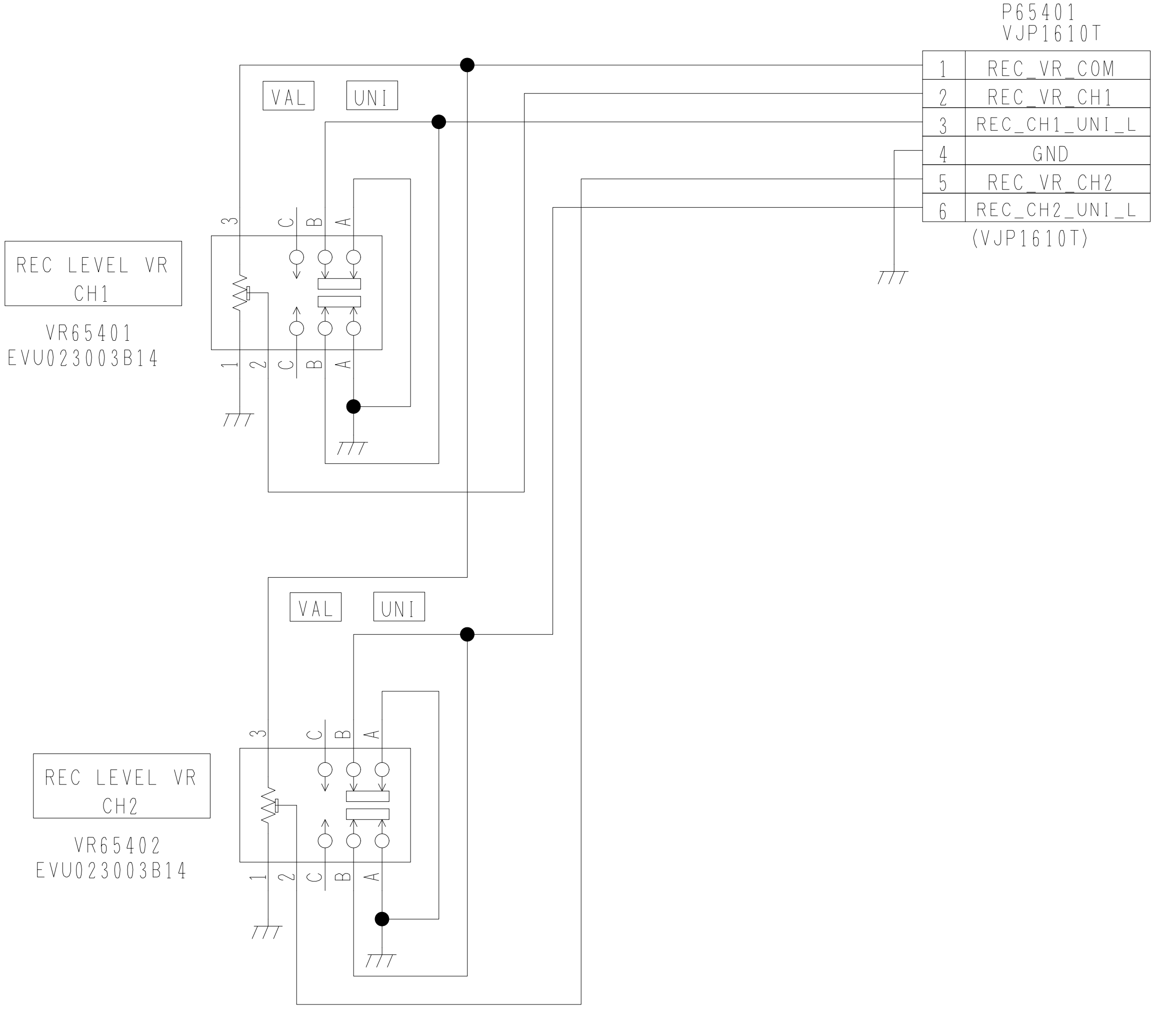
COMPONENT NAME	**FRONT**	03/3
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86343A	KR 6A0116(3/3) **SCM078**	

A
B
C
D
E
F
G
H
I
J


EE/TAPE
SW301
K0C112B00006
TAPE
EE
+5V
R301
22K/J6
4
1
2
3
5
(VST0031)
P301
K1MN18B00028
+5V 1
KEY_TAPE 2
SEARCH_L 3
REW_L 4
STOP_L 5
FF_L 6
PLAY_L 7
PAUSE_L 8
REC_L 9
GND 10
11
KEY_REC 12
KEY_PAUSE 13
KEY_PLAY 14
KEY_FF 15
KEY_STOP 16
KEY_REW 17
KEY_SEARCH 18
(VJS2582B018)
[6]
[5]
[4]
[3]
[2]
[1]
[0]
SEARCH SPEED
SW302
K0F111A00235
R302
22K/J6
R303
180/J6
SW302
K0F111A00235
(VSP0853A000)
REW
SW303
K0F111A00280
R304
22K/J6
R305
180/J6
SW303
K0F111A00280
(VSP0792)
STOP
SW304
K0F111A00426
R306
22K/J6
R307
180/J6
SW304
K0F111A00426
(VSP0788)
FF
SW305
K0F111A00279
R308
22K/J6
R309
180/J6
SW305
K0F111A00279
(VSP0791)
PLAY
SW306
K0F111A00278
R310
22K/J6
R311
180/J6
SW306
K0F111A00278
(VSP0790)
PAUSE
SW307
K0F111A00281
R312
22K/J6
R313
180/J6
SW307
K0F111A00281
(VSP0793)
REC
SW308
K0F111A00283
R314
22K/J6
R315
180(1/4W)
SW308
K0F111A00283
(VSP0789)
+5V

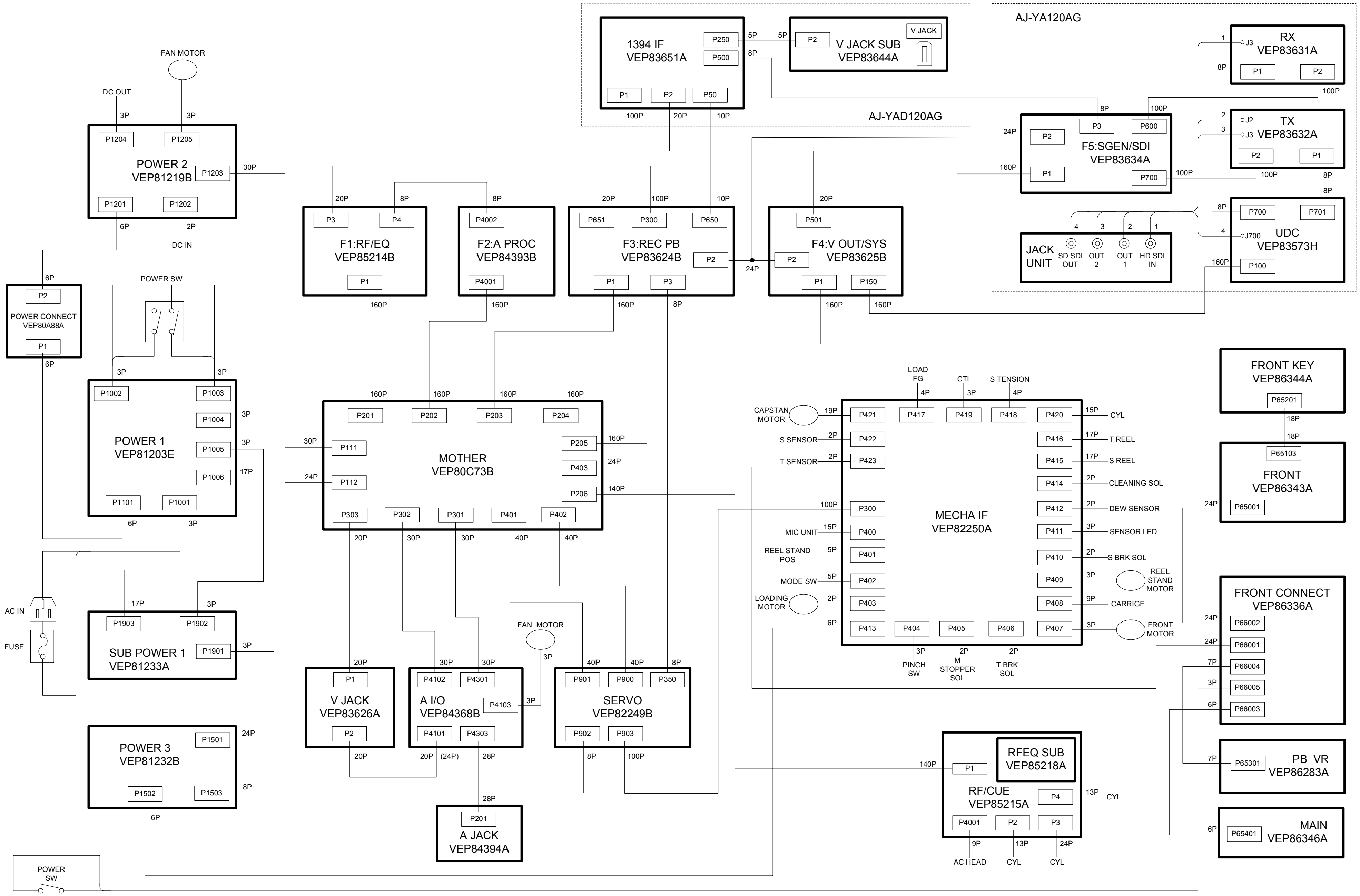
COMPONENT NAME	**FRONT KEY**	01/1
CIRCUIT BOARD NO.		DRAWING NO.
VEP86344A		KR 6A0117(1/1)
		SCM079

1 2 3 4 5 6 7 8 9 10 11 12 13 14


P65401
VJP1610T
1 REC_VR_COM
2 REC_VR_CH1
3 REC_CH1_UNI_L
4 GND
5 REC_VR_CH2
6 REC_CH2_UNI_L
(VJP1610T)
VAL
UNI
REC LEVEL VR CH1
VR65401
EVU023003B14
3
C
B
A
1
2
C
B
A
VAL
UNI
REC LEVEL VR CH2
VR65402
EVU023003B14
3
C
B
A
1
2
C
B
A

COMPONENT NAME	**MAIN**	01/1
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86346A	KR 6A0119(1/1)	
	SCM100	

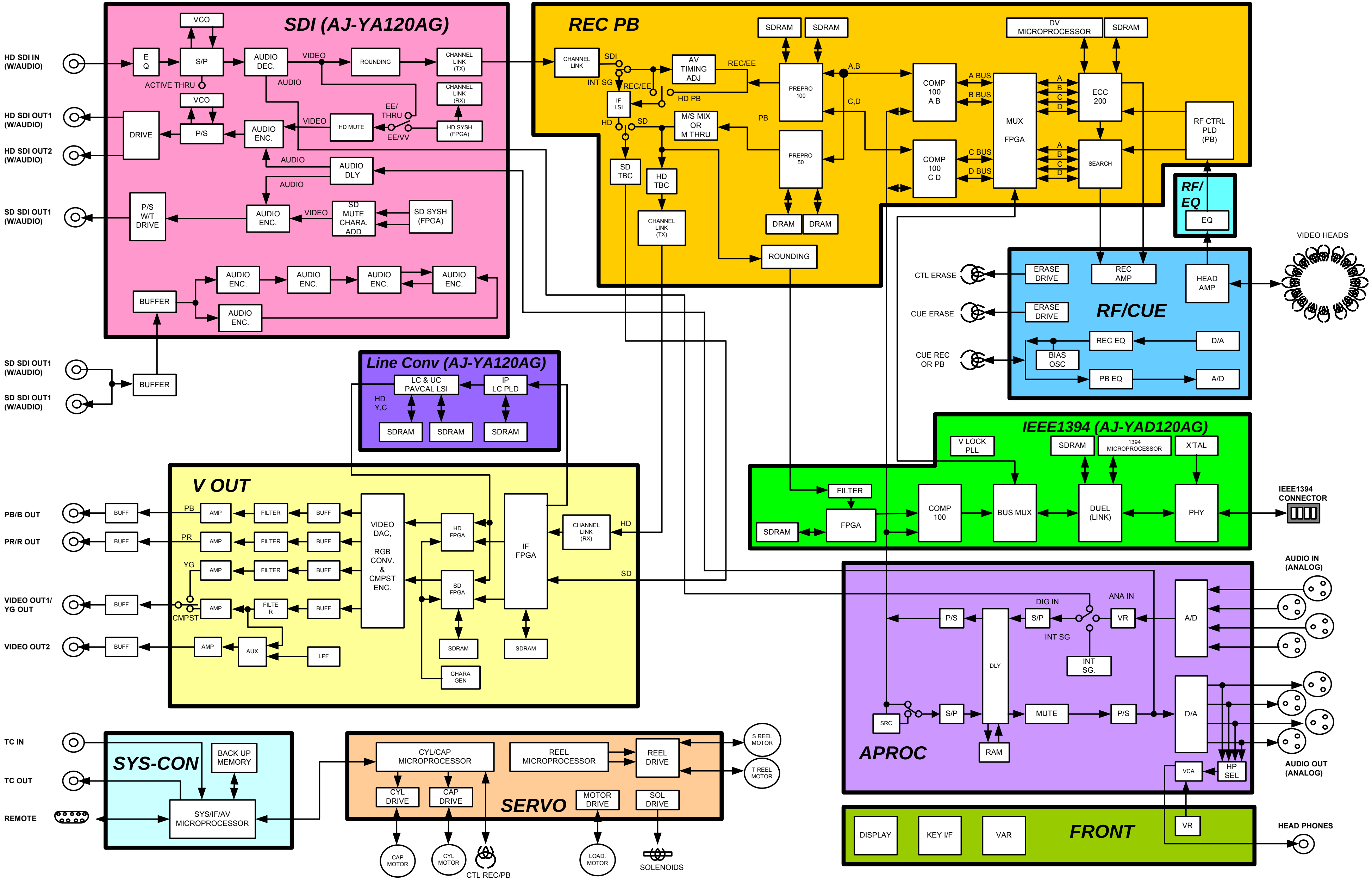
INTERCONNECTION



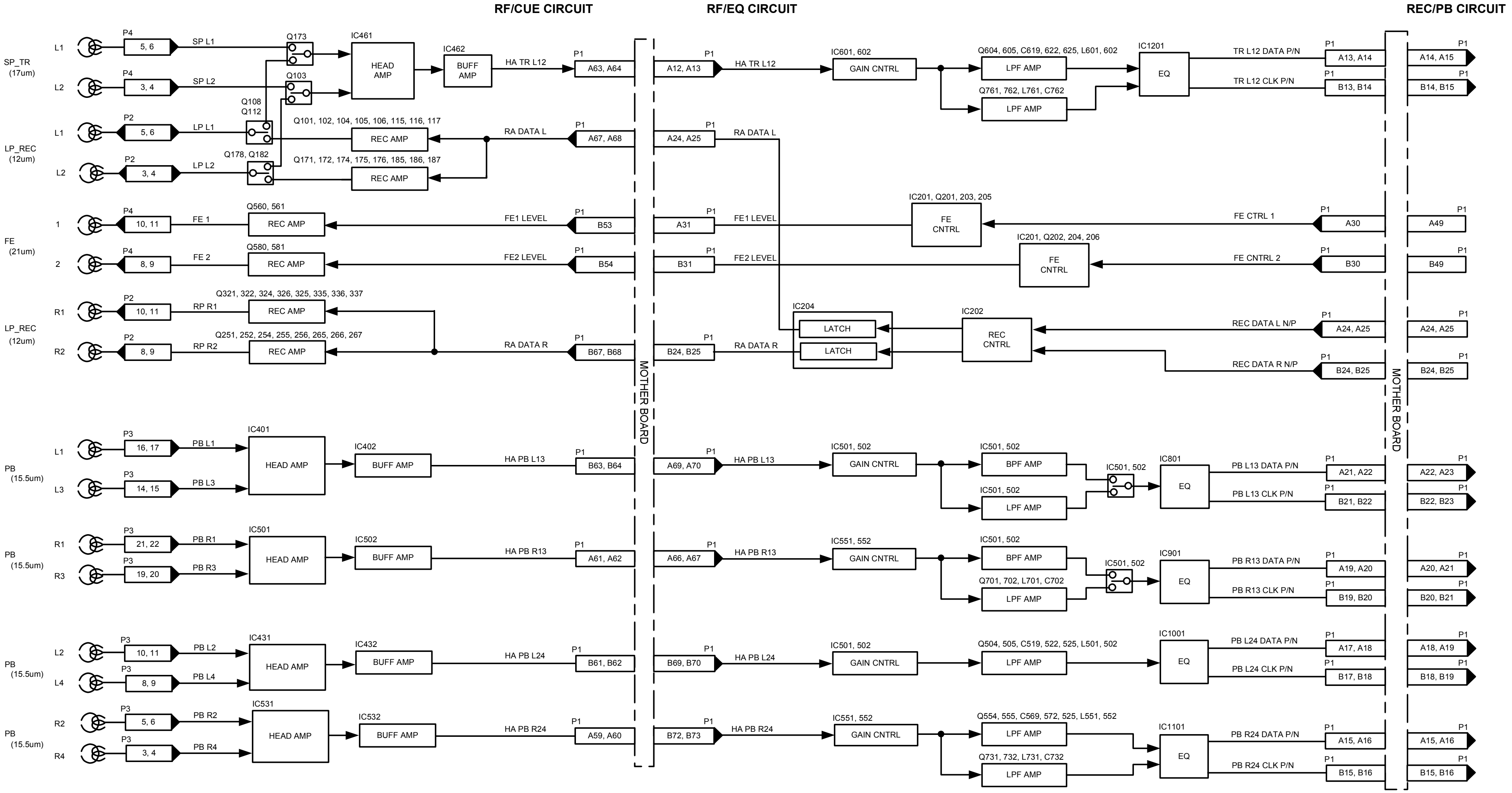
1394 IF
VEP83651A
P250
P500
P1
P2
P50
5P
8P
100P
20P
10P
V JACK SUB
VEP83644A
V JACK
AJ-YAD120AG
AJ-YA120AG
RX
VEP83631A
J3
TX
VEP83632A
J2
F5:SGEN/SDI
VEP83634A
P3
P600
P700
24P
160P
100P
8P
JACK UNIT
SD SDI OUT
OUT 2
OUT 1
HD SDI IN
UDC
VEP83573H
J700
P701
P100
FAN MOTOR
DC OUT
3P
P1204
P1205
POWER 2
VEP81219B
P1203
30P
P1201
P1202
6P
2P
DC IN
POWER CONNECT
VEP80A88A
POWER SW
POWER 1
VEP81203E
P1002
P1003
P1004
P1005
P1006
17P
P1101
P1001
AC IN
FUSE
SUB POWER 1
VEP81233A
P1903
P1902
P1901
POWER 3
VEP81232B
P1501
P1502
P1503
POWER SW
F1:RF/EQ
VEP85214B
P4
F2:A PROC
VEP84393B
P4002
P4001
F3:REC PB
VEP83624B
P651
P300
P650
F4:V OUT/SYS
VEP83625B
P501
P150
MOTHER
VEP80C73B
P201
P202
P203
P204
P111
P112
P205
P403
P206
140P
P303
P302
P301
P401
P402
40P
V JACK
VEP83626A
A I/O
VEP84368B
P4102
P4301
P4103
P4101
P4303
(24P)
28P
A JACK
VEP84394A
SERVO
VEP82249B
P901
P900
P350
P902
P903
MECHA IF
VEP82250A
LOAD FG
CTL
S TENSION
CAPSTAN MOTOR
19P
P421
P417
P419
P418
P420
15P
CYL
S SENSOR
P422
P416
T REEL
T SENSOR
P423
P415
S REEL
P414
CLEANING SOL
P412
DEW SENSOR
MIC UNIT
P400
P411
SENSOR LED
REEL STAND POS
P401
P410
S BRK SOL
MODE SW
P402
P409
REEL STAND MOTOR
LOADING MOTOR
P403
P408
9P
CARRIGE
P413
P404
P405
P406
P407
FRONT MOTOR
PINCH SW
M STOPPER SOL
T BRK SOL
FRONT KEY
VEP86344A
P65201
18P
P65103
FRONT
VEP86343A
P65001
FRONT CONNECT
VEP86336A
P66002
P66001
P66004
P66005
P66003
7P
PB VR
VEP86283A
P65301
MAIN
VEP86346A
P65401
RFEQ SUB
VEP85218A
RF/CUE
VEP85215A
13P
AC HEAD

BLK-1

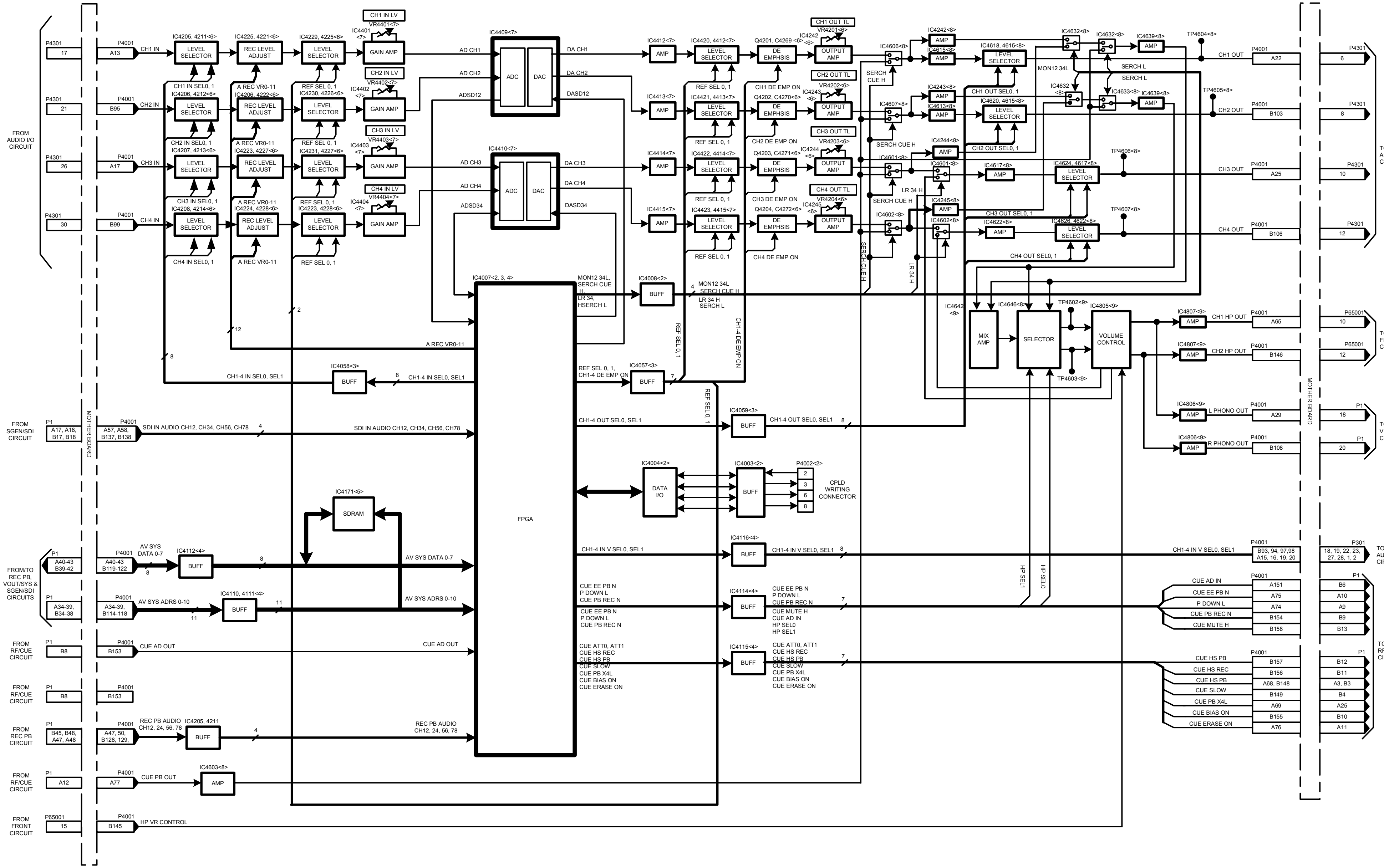
OVERALL BLOCK DIAGRAM


SDI (AJ-YA120AG)
HD SDI IN (W/AUDIO)
HD SDI OUT1 (W/AUDIO)
HD SDI OUT2 (W/AUDIO)
SD SDI OUT1 (W/AUDIO)
SD SDI OUT1 (W/AUDIO)
SD SDI OUT1 (W/AUDIO)
VCO
E Q
S/P
ACTIVE THRU
AUDIO DEC.
VIDEO
AUDIO
ROUNDING
CHANNEL LINK (TX)
CHANNEL LINK (RX)
VCO
DRIVE
P/S
AUDIO ENC.
VIDEO
HD MUTE
EE/ THRU
EE/VV
HD SYSH (FPGA)
AUDIO
AUDIO DLY
AUDIO
P/S W/T DRIVE
AUDIO ENC.
VIDEO
SD MUTE CHARA. ADD
SD SYSH (FPGA)
AUDIO ENC.
AUDIO ENC.
AUDIO ENC.
AUDIO ENC.
BUFFER
AUDIO ENC.
BUFFER
REC PB
CHANNEL LINK
SDI
INT SG
REC/EE
AV TIMING ADJ
REC/EE
IF LSI
HD PB
HD
SD
M/S MIX OR M THRU
PB
SD TBC
HD TBC
CHANNEL LINK (TX)
SDRAM
SDRAM
PREPRO 100
PREPRO 50
A,B
C,D
DRAM
DRAM
ROUNDING
COMP 100 A B
COMP 100 C D
A BUS
B BUS
C BUS
D BUS
MUX FPGA
A B C D
A B C D
ECC 200
SEARCH
DV MICROPROCESSOR
SDRAM
RF CTRL PLD (PB)
RF/ EQ
EQ
VIDEO HEADS
RF/CUE
CTL ERASE
CUE ERASE
CUE REC OR PB
ERASE DRIVE
ERASE DRIVE
REC AMP
HEAD AMP
REC EQ
D/A
BIAS OSC
PB EQ
A/D
Line Conv (AJ-YA120AG)
LC & UC PAVCAL LSI
IP LC PLD
HD Y,C
SDRAM
SDRAM
SDRAM
IEEE1394 (AJ-YAD120AG)
V LOCK PLL
SDRAM
1394 MICROPROCESSOR
X'TAL
FILTER
FPGA
SDRAM
COMP 100
BUS MUX
DUEL (LINK)
PHY
IEEE1394 CONNECTOR
V OUT
PB/B OUT
PR/R OUT
VIDEO OUT1/ YG OUT
VIDEO OUT2
BUFF
BUFF
BUFF
BUFF
BUFF
PB
PR
YG
CMPST
AMP
AMP
AMP
AMP
AMP
FILTER
FILTER
FILTER
FILTE R
BUFF
BUFF
BUFF
BUFF
AUX
LPF
VIDEO DAC, RGB CONV. & CMPST ENC.
HD FPGA
SD FPGA
SDRAM
CHARA GEN
IF FPGA
SDRAM
CHANNEL LINK (RX)
HD
SD
APROC
AUDIO IN (ANALOG)
AUDIO OUT (ANALOG)
DIG IN
ANA IN
P/S
S/P
VR
A/D
INT SG
INT SG.
DLY
SRC
S/P
MUTE
P/S
D/A
RAM
VCA
HP SEL
SYS-CON
TC IN
TC OUT
REMOTE
BACK UP MEMORY
SYS/IF/AV MICROPROCESSOR
SERVO
CYL/CAP MICROPROCESSOR
REEL MICROPROCESSOR
REEL DRIVE
S REEL MOTOR
T REEL MOTOR
CYL DRIVE
CAP DRIVE
MOTOR DRIVE
SOL DRIVE
CAP MOTOR
CYL MOTOR
CTL REC/PB
LOAD. MOTOR
SOLENOIDS
FRONT
DISPLAY
KEY I/F
VAR
VR
HEAD PHONES

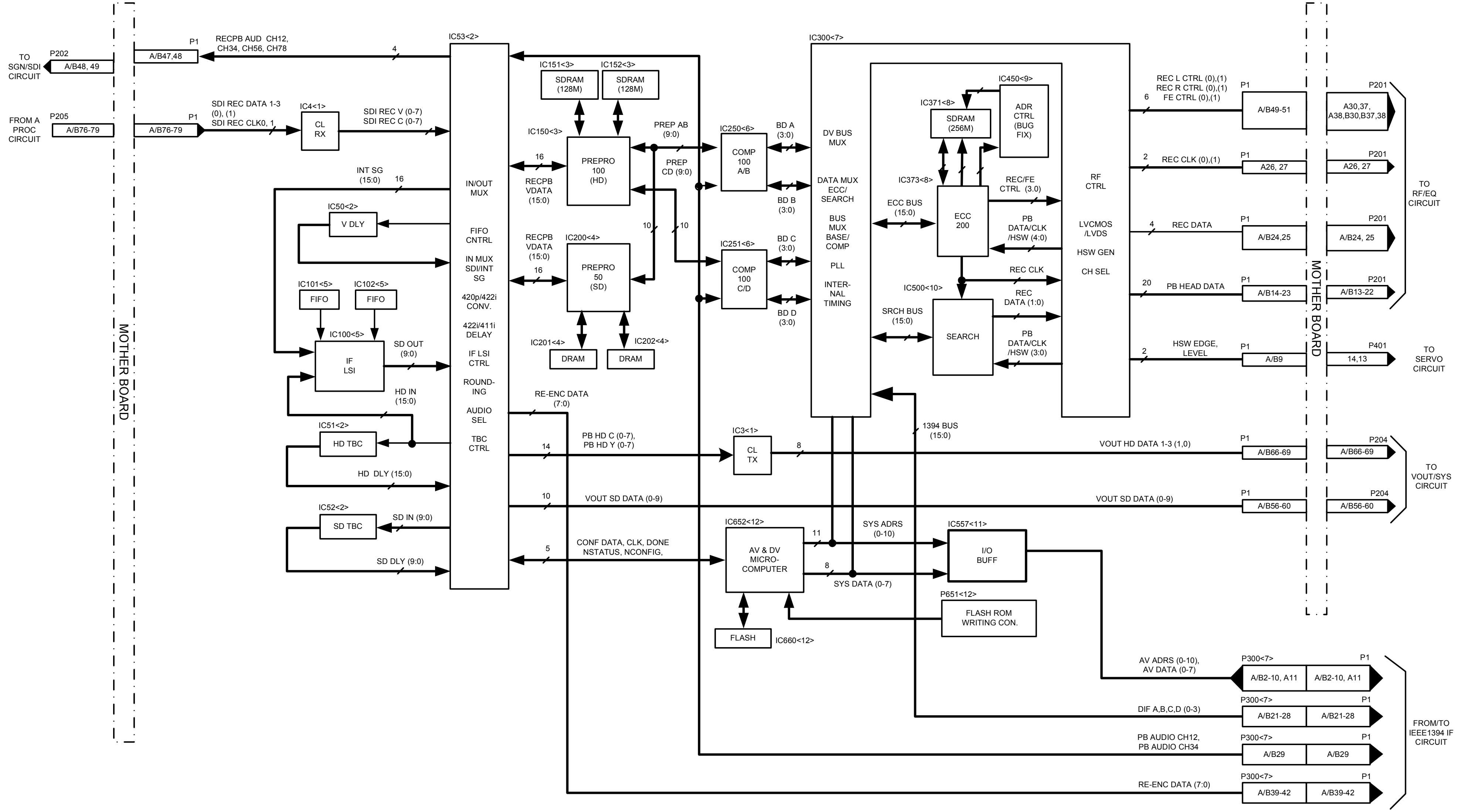
RF BLOCK DIAGRAM


RF/CUE CIRCUIT
RF/EQ CIRCUIT
REC/PB CIRCUIT
SP_TR
(17um)
L1
L2
P4
5, 6
3, 4
SP L1
SP L2
Q173
Q103
Q108
Q112
IC461
HEAD AMP
IC462
BUFF AMP
HA TR L12
P1
A63, A64
MOTHER BOARD
A12, A13
IC601, 602
GAIN CNTRL
Q604, 605, C619, 622, 625, L601, 602
LPF AMP
Q761, 762, L761, C762
IC1201
EQ
TR L12 DATA P/N
TR L12 CLK P/N
A13, A14
B13, B14
A14, A15
B14, B15
LP_REC
(12um)
P2
LP L1
LP L2
Q178, Q182
Q101, 102, 104, 105, 106, 115, 116, 117
Q171, 172, 174, 175, 176, 185, 186, 187
REC AMP
RA DATA L
A67, A68
A24, A25
FE
(21um)
1
2
10, 11
8, 9
FE 1
FE 2
Q560, 561
Q580, 581
FE1 LEVEL
FE2 LEVEL
B53
B54
A31
B31
IC201, Q201, 203, 205
IC201, Q202, 204, 206
FE CNTRL
FE CTRL 1
FE CNTRL 2
A30
B30
A49
B49
R1
R2
RP R1
RP R2
Q321, 322, 324, 326, 325, 335, 336, 337
Q251, 252, 254, 255, 256, 265, 266, 267
RA DATA R
B67, B68
B24, B25
IC204
LATCH
IC202
REC CNTRL
REC DATA L N/P
REC DATA R N/P
PB
(15.5um)
L3
P3
16, 17
14, 15
PB L1
PB L3
IC401
IC402
BUFF AMP
HA PB L13
B63, B64
A69, A70
IC501, 502
BPF AMP
IC801
PB L13 DATA P/N
PB L13 CLK P/N
A21, A22
B21, B22
A22, A23
B22, B23
R3
21, 22
19, 20
PB R1
PB R3
IC501
IC502
HA PB R13
A61, A62
A66, A67
IC551, 552
Q701, 702, L701, C702
IC901
PB R13 DATA P/N
PB R13 CLK P/N
A19, A20
B19, B20
A20, A21
B20, B21
L4
PB L2
PB L4
IC431
IC432
HA PB L24
B61, B62
B69, B70
Q504, 505, C519, 522, 525, L501, 502
IC1001
PB L24 DATA P/N
PB L24 CLK P/N
A17, A18
B17, B18
A18, A19
B18, B19
R4
PB R2
PB R4
IC531
IC532
HA PB R24
A59, A60
B72, B73
Q554, 555, C569, 572, 525, L551, 552
Q731, 732, L731, C732
IC1101
PB R24 DATA P/N
PB R24 CLK P/N
A15, A16
B15, B16

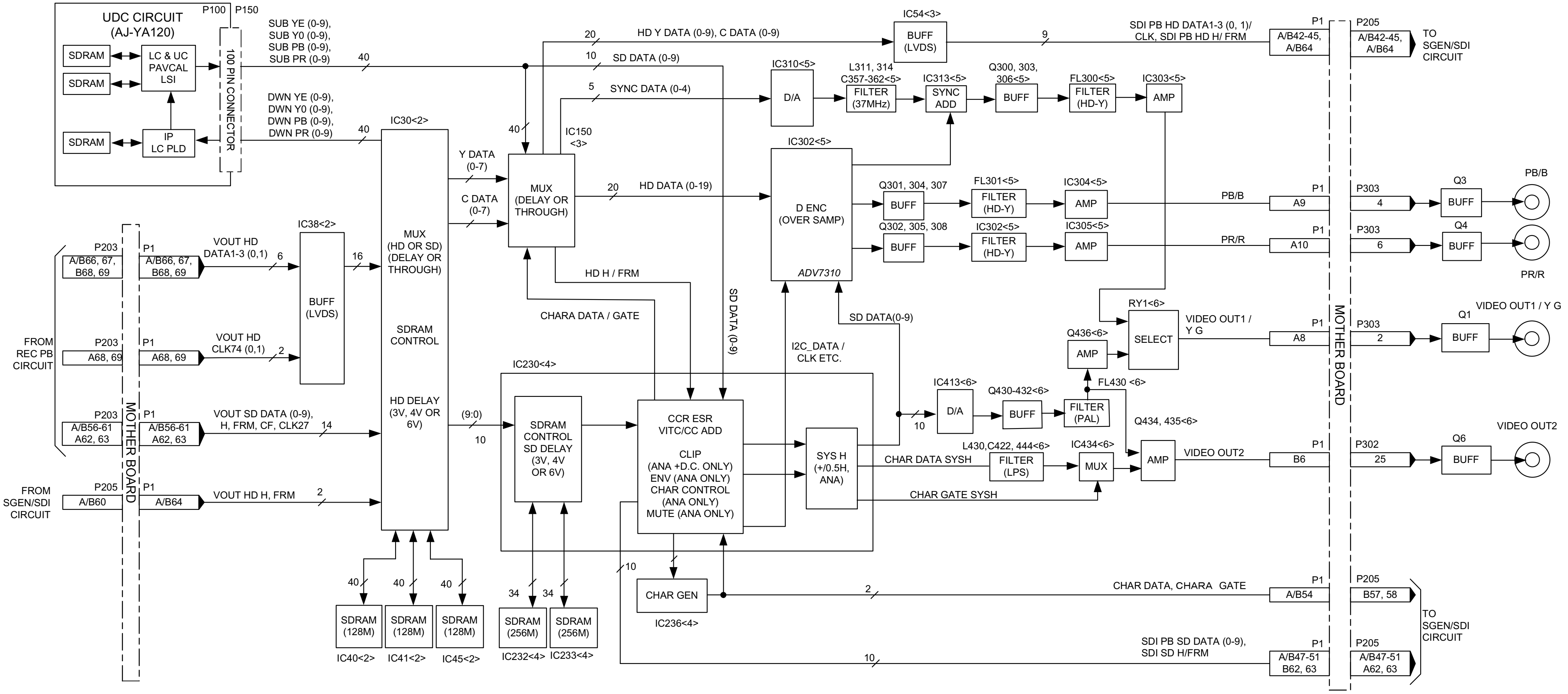
APROC BLOCK DIAGRAM


FROM AUDIO I/O CIRCUIT
P4301
17
21
26
30
MOTHER BOARD
P4001
A13
B95
A17
B99
CH1 IN
CH2 IN
CH3 IN
CH4 IN
IC4205, 4211<6>
IC4206, 4212<6>
IC4207, 4213<6>
IC4208, 4214<6>
LEVEL SELECTOR
CH1 IN SEL0, 1
CH2 IN SEL0, 1
CH3 IN SEL0, 1
CH4 IN SEL0, 1
IC4225, 4221<6>
IC4206, 4222<6>
IC4223, 4227<6>
IC4224, 4228<6>
REC LEVEL ADJUST
A REC VR0-11
IC4229, 4225<6>
IC4230, 4226<6>
IC4231, 4227<6>
IC4223, 4228<6>
LEVEL SELECTOR
REF SEL 0, 1
CH1 IN LV
VR4401<7>
IC4401 <7>
CH2 IN LV
VR4402<7>
IC4402 <7>
CH3 IN LV
VR4403<7>
IC4403 <7>
CH4 IN LV
VR4404<7>
IC4404 <7>
GAIN AMP
AD CH1
AD CH2
ADSD12
AD CH3
AD CH4
ADSD34
IC4409<7>
IC4410<7>
ADC
DAC
DA CH1
DA CH2
DASD12
DA CH3
DA CH4
DASD34
IC4412<7>
IC4413<7>
IC4414<7>
IC4415<7>
AMP
IC4420, 4412<7>
IC4421, 4413<7>
IC4422, 4414<7>
IC4423, 4415<7>
LEVEL SELECTOR
REF SEL 0, 1
Q4201, C4269 <6>
Q4202, C4270<6>
Q4203, C4271<6>
Q4204, C4272<6>
DE EMPHSIS
CH1 DE EMP ON
CH2 DE EMP ON
CH3 DE EMP ON
CH4 DE EMP ON
CH1 OUT TL
VR4201<6>
IC4242 <6>
CH2 OUT TL
VR4202<6>
IC4243 <6>
CH3 OUT TL
VR4203<6>
IC4244 <6>
CH4 OUT TL
VR4204<6>
IC4245 <6>
OUTPUT AMP
IC4606<8>
IC4607<8>
IC4601<8>
IC4602<8>
SERCH CUE H
LR 34 H
IC4242<8>
IC4615<8>
IC4243<8>
IC4613<8>
IC4244<8>
IC4245<8>
IC4617<8>
IC4622<8>
AMP
IC4618, 4615<8>
IC4620, 4615<8>
IC4624, 4617<8>
IC4626, 4622<8>
LEVEL SELECTOR
CH1 OUT SEL0, 1
CH2 OUT SEL0, 1
CH3 OUT SEL0, 1
CH4 OUT SEL0, 1
MON12 34L
IC4632<8>
IC4632 <8>
IC4633<8>
SERCH L
IC4639<8>
AMP
TP4604<8>
TP4605<8>
TP4606<8>
TP4607<8>
CH1 OUT
CH2 OUT
CH3 OUT
CH4 OUT
P4001
A22
B103
A25
B106
P4301
6
8
10
12
TO AUDIO I/O CIRCUIT
IC4007<2, 3, 4>
FPGA
MON12 34L, SERCH CUE H, LR 34, HSERCH L
IC4008<2>
BUFF
4
MON12 34L SERCH CUE H LR 34 H SERCH L
REF SEL 0, 1
CH1-4 DE EMP ON
A REC VR0-11
12
2
8
CH1-4 IN SEL0, SEL1
IC4058<3>
BUFF
REF SEL 0, 1, CH1-4 DE EMP ON
IC4057<3>
7
IC4642 <9>
MIX AMP
IC4646<8>
SELECTOR
TP4602<9>
TP4603<9>
IC4805<9>
VOLUME CONTROL
IC4807<9>
AMP
CH1 HP OUT
CH2 HP OUT
P4001
A65
B146
P65001
10
12
TO FRONT CIRCUIT
IC4806<9>
L PHONO OUT
R PHONO OUT
A29
B108
P1
18
20
TO V JACK CIRCUIT
FROM SGEN/SDI CIRCUIT
P1
A17, A18, B17, B18
P4001
A57, A58, B137, B138
SDI IN AUDIO CH12, CH34, CH56, CH78
IC4059<3>
CH1-4 OUT SEL0, SEL1
IC4004<2>
DATA I/O
IC4003<2>
P4002<2>
2
3
6
8
CPLD WRITING CONNECTOR
IC4171<5>
SDRAM
FROM/TO REC PB, VOUT/SYS & SGEN/SDI CIRCUITS
A40-43 B39-42
A40-43 B119-122
AV SYS DATA 0-7
IC4112<4>
A34-39, B34-38
A34-39, B114-118
AV SYS ADRS 0-10
IC4110, 4111<4>
11
IC4116<4>
CH1-4 IN V SEL0, SEL1
B93, 94, 97,98 A15, 16, 19, 20
P301
18, 19, 22, 23, 27, 28, 1, 2
TO AUDIO I/O CIRCUIT
CUE EE PB N
P DOWN L
CUE PB REC N
IC4114<4>
CUE MUTE H
CUE AD IN
HP SEL0
HP SEL1
CUE ATT0, ATT1
CUE HS REC
CUE HS PB
CUE SLOW
CUE PB X4L
CUE BIAS ON
CUE ERASE ON
IC4115<4>
A151
A75
A74
B154
B158
B6
A10
A9
B9
B13
B157
B156
A68, B148
B149
A69
B155
A76
B12
B11
A3, B3
B4
A25
B10
A11
TO RF/CUE CIRCUIT
FROM RF/CUE CIRCUIT
B8
B153
CUE AD OUT
FROM REC PB CIRCUIT
B45, B48, A47, A48
A47, 50, B128, 129,
REC PB AUDIO CH12, 24, 56, 78
IC4205, 4211
REC PB AUDIO CH12, 24, 56, 78
A12
A77
CUE PB OUT
IC4603<8>
FROM FRONT CIRCUIT
P65001
15
B145
HP VR CONTROL

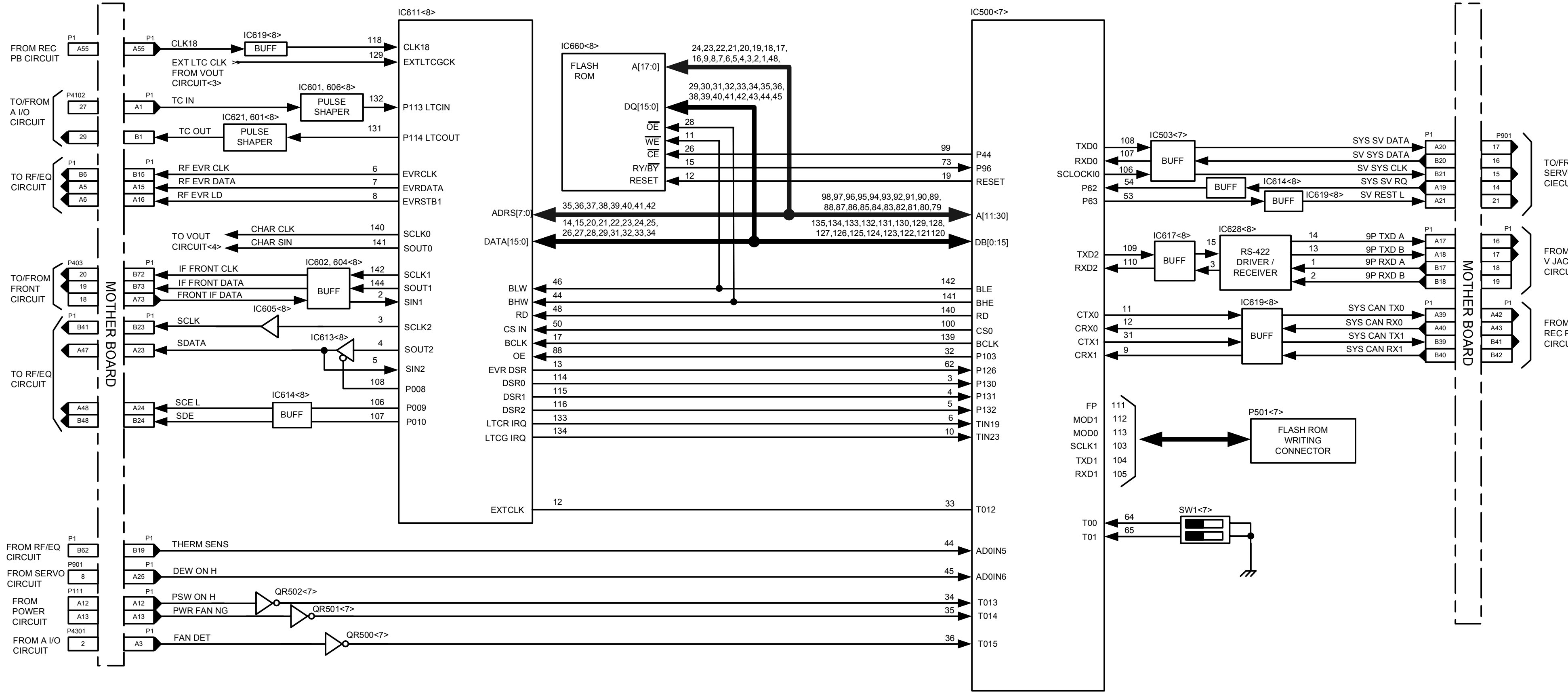
REC PB BLOCK DIAGRAM


MOTHER BOARD
TO SGN/SDI CIRCUIT
P202
A/B48, 49
FROM A PROC CIRCUIT
P205
A/B76-79
P1
A/B47,48
RECPB AUD CH12, CH34, CH56, CH78
4
P1
A/B76-79
SDI REC DATA 1-3 (0), (1)
SDI REC CLK0, 1
IC4<1>
CL RX
SDI REC V (0-7)
SDI REC C (0-7)
IC53<2>
IN/OUT MUX
FIFO CNTRL
IN MUX SDI/INT SG
420p/422i CONV.
422i/411i DELAY
IF LSI CTRL
ROUND-ING
AUDIO SEL
TBC CTRL
INT SG (15:0)
16
IC50<2>
V DLY
IC101<5>
FIFO
IC102<5>
FIFO
IC100<5>
IF LSI
SD OUT (9:0)
HD IN (15:0)
IC51<2>
HD TBC
HD DLY (15:0)
IC52<2>
SD TBC
SD IN (9:0)
SD DLY (9:0)
IC151<3>
SDRAM (128M)
IC152<3>
SDRAM (128M)
IC150<3>
PREPRO 100 (HD)
16
RECPB VDATA (15:0)
PREP AB (9:0)
PREP CD (9:0)
10
10
IC200<4>
PREPRO 50 (SD)
RECPB VDATA (15:0)
16
IC201<4>
DRAM
IC202<4>
DRAM
RE-ENC DATA (7:0)
PB HD C (0-7), PB HD Y (0-7)
14
10
VOUT SD DATA (0-9)
5
CONF DATA, CLK, DONE NSTATUS, NCONFIG,
IC250<6>
COMP 100 A/B
BD A (3:0)
BD B (3:0)
IC251<6>
COMP 100 C/D
BD C (3:0)
BD D (3:0)
IC3<1>
CL TX
8
IC652<12>
AV & DV MICRO-COMPUTER
11
8
SYS ADRS (0-10)
SYS DATA (0-7)
FLASH
IC660<12>
IC557<11>
I/O BUFF
P651<12>
FLASH ROM WRITING CON.
IC300<7>
DV BUS MUX
DATA MUX ECC/ SEARCH
BUS MUX BASE/ COMP
PLL
INTER-NAL TIMING
IC450<9>
ADR CTRL (BUG FIX)
IC371<8>
SDRAM (256M)
IC373<8>
ECC 200
ECC BUS (15:0)
REC/FE CTRL (3.0)
PB DATA/CLK /HSW (4:0)
REC CLK
IC500<10>
SEARCH
SRCH BUS (15:0)
REC DATA (1:0)
PB DATA/CLK /HSW (3:0)
RF CTRL
LVCMOS /LVDS
HSW GEN
CH SEL
1394 BUS (15:0)
REC L CTRL (0),(1)
REC R CTRL (0),(1)
FE CTRL (0),(1)
6
P1
A/B49-51
P201
A30,37, A38,B30,B37,38
2
REC CLK (0),(1)
P1
A26, 27
P201
A26, 27
4
REC DATA
P1
A/B24,25
P201
A/B24, 25
20
PB HEAD DATA
P1
A/B14-23
P201
A/B13-22
TO RF/EQ CIRCUIT
2
HSW EDGE, LEVEL
P1
A/B9
P401
14,13
TO SERVO CIRCUIT
MOTHER BOARD
VOUT HD DATA 1-3 (1,0)
P1
A/B66-69
P204
A/B66-69
VOUT SD DATA (0-9)
P1
A/B56-60
P204
A/B56-60
TO VOUT/SYS CIRCUIT
AV ADRS (0-10), AV DATA (0-7)
P300<7>
A/B2-10, A11
P1
A/B2-10, A11
DIF A,B,C,D (0-3)
P300<7>
A/B21-28
P1
A/B21-28
PB AUDIO CH12, PB AUDIO CH34
P300<7>
A/B29
P1
A/B29
RE-ENC DATA (7:0)
P300<7>
A/B39-42
P1
A/B39-42
FROM/TO IEEE1394 IF CIRCUIT

V OUT BLOCK DIAGRAM

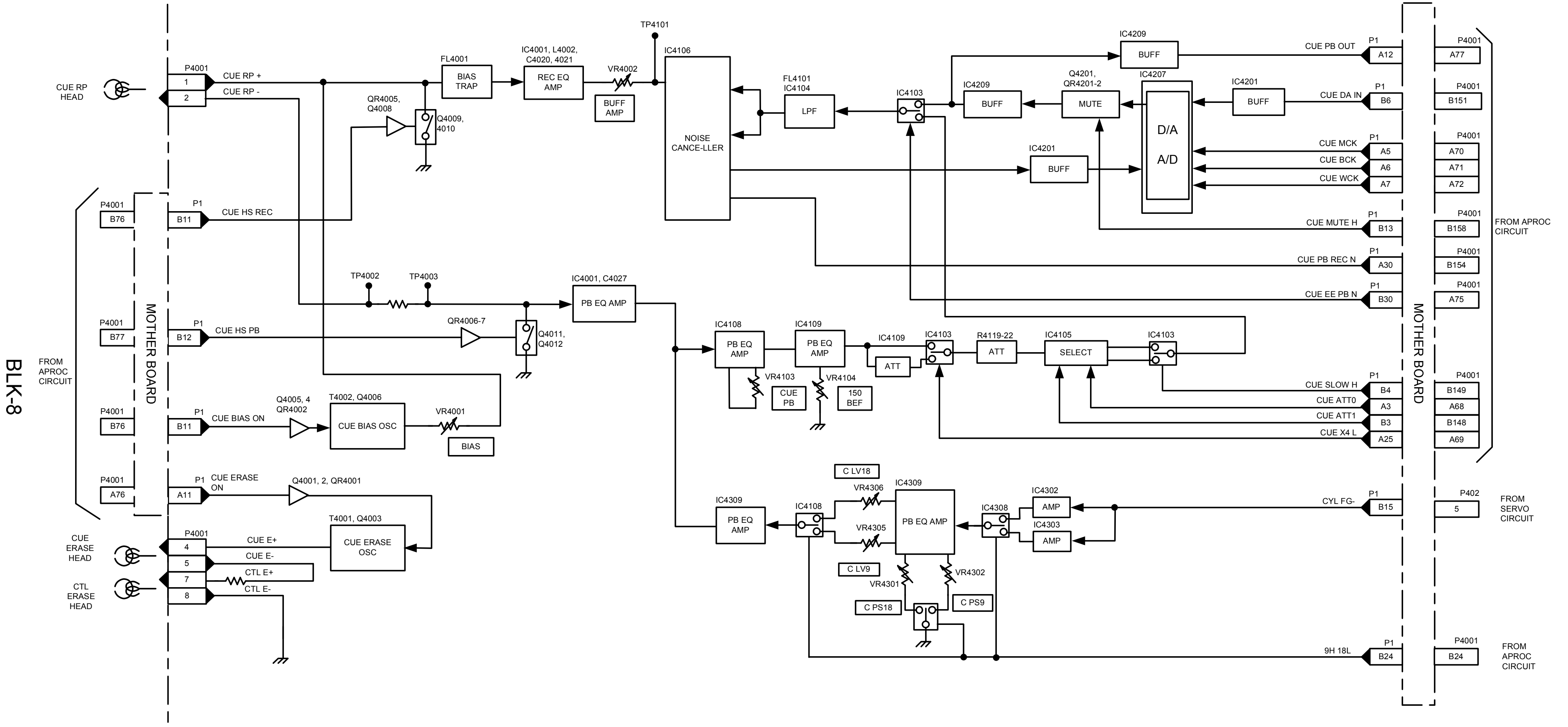

UDC CIRCUIT
(AJ-YA120)
SDRAM
SDRAM
SDRAM
LC & UC
PAVCAL
LSI
IP
LC PLD
P100
P150
100 PIN CONNECTOR
SUB YE (0-9),
SUB Y0 (0-9),
SUB PB (0-9),
SUB PR (0-9)
40
DWN YE (0-9),
DWN Y0 (0-9),
DWN PB (0-9),
DWN PR (0-9)
40
20
HD Y DATA (0-9), C DATA (0-9)
10
SD DATA (0-9)
5
SYNC DATA (0-4)
IC54<3>
BUFF
(LVDS)
9
SDI PB HD DATA1-3 (0, 1)/
CLK, SDI PB HD H/ FRM
P1
A/B42-45,
A/B64
P205
A/B42-45,
A/B64
TO
SGEN/SDI
CIRCUIT
IC310<5>
D/A
L311, 314
C357-362<5>
FILTER
(37MHz)
IC313<5>
SYNC
ADD
Q300, 303,
306<5>
BUFF
FL300<5>
FILTER
(HD-Y)
IC303<5>
AMP
IC30<2>
40
IC150
<3>
Y DATA
(0-7)
C DATA
(0-7)
MUX
(DELAY OR
THROUGH)
20
HD DATA (0-19)
IC302<5>
D ENC
(OVER SAMP)
ADV7310
Q301, 304, 307
BUFF
FL301<5>
FILTER
(HD-Y)
IC304<5>
AMP
PB/B
P1
A9
P303
4
Q3
BUFF
PB/B
Q302, 305, 308
BUFF
IC302<5>
FILTER
(HD-Y)
IC305<5>
AMP
PR/R
P1
A10
P303
6
Q4
BUFF
PR/R
P203
A/B66, 67,
B68, 69
P1
A/B66, 67,
B68, 69
VOUT HD
DATA1-3 (0,1)
6
IC38<2>
BUFF
(LVDS)
16
MUX
(HD OR SD)
(DELAY OR
THROUGH)
SDRAM
CONTROL
HD DELAY
(3V, 4V OR
6V)
HD H / FRM
CHARA DATA / GATE
SD DATA (0-9)
I2C_DATA /
CLK ETC.
SD DATA(0-9)
RY1<6>
SELECT
VIDEO OUT1 /
Y G
P1
A8
P303
2
Q1
BUFF
VIDEO OUT1 / Y G
Q436<6>
AMP
FL430 <6>
FROM
REC PB
CIRCUIT
P203
A68, 69
P1
A68, 69
VOUT HD
CLK74 (0,1)
2
IC230<4>
IC413<6>
D/A
10
Q430-432<6>
BUFF
FILTER
(PAL)
Q434, 435<6>
P203
A/B56-61
A62, 63
P1
A/B56-61
A62, 63
VOUT SD DATA (0-9),
H, FRM, CF, CLK27
14
(9:0)
10
SDRAM
CONTROL
SD DELAY
(3V, 4V
OR 6V)
CCR ESR
VITC/CC ADD
CLIP
(ANA +D.C. ONLY)
ENV (ANA ONLY)
CHAR CONTROL
(ANA ONLY)
MUTE (ANA ONLY)
SYS H
(+/0.5H,
ANA)
L430,C422, 444<6>
CHAR DATA SYSH
FILTER
(LPS)
IC434<6>
MUX
AMP
VIDEO OUT2
P1
B6
P302
25
Q6
BUFF
VIDEO OUT2
CHAR GATE SYSH
FROM
SGEN/SDI
CIRCUIT
P205
A/B60
P1
A/B64
VOUT HD H, FRM
2
MOTHER BOARD
MOTHER BOARD
40
40
40
SDRAM
(128M)
SDRAM
(128M)
SDRAM
(128M)
IC40<2>
IC41<2>
IC45<2>
34
34
SDRAM
(256M)
SDRAM
(256M)
IC232<4>
IC233<4>
10
CHAR GEN
IC236<4>
2
CHAR DATA, CHARA GATE
P1
A/B54
P205
B57, 58
TO
SGEN/SDI
CIRCUIT
10
SDI PB SD DATA (0-9),
SDI SD H/FRM
P1
A/B47-51
B62, 63
P205
A/B47-51
A62, 63

SYS CONTROL BLOCK DIAGRAM

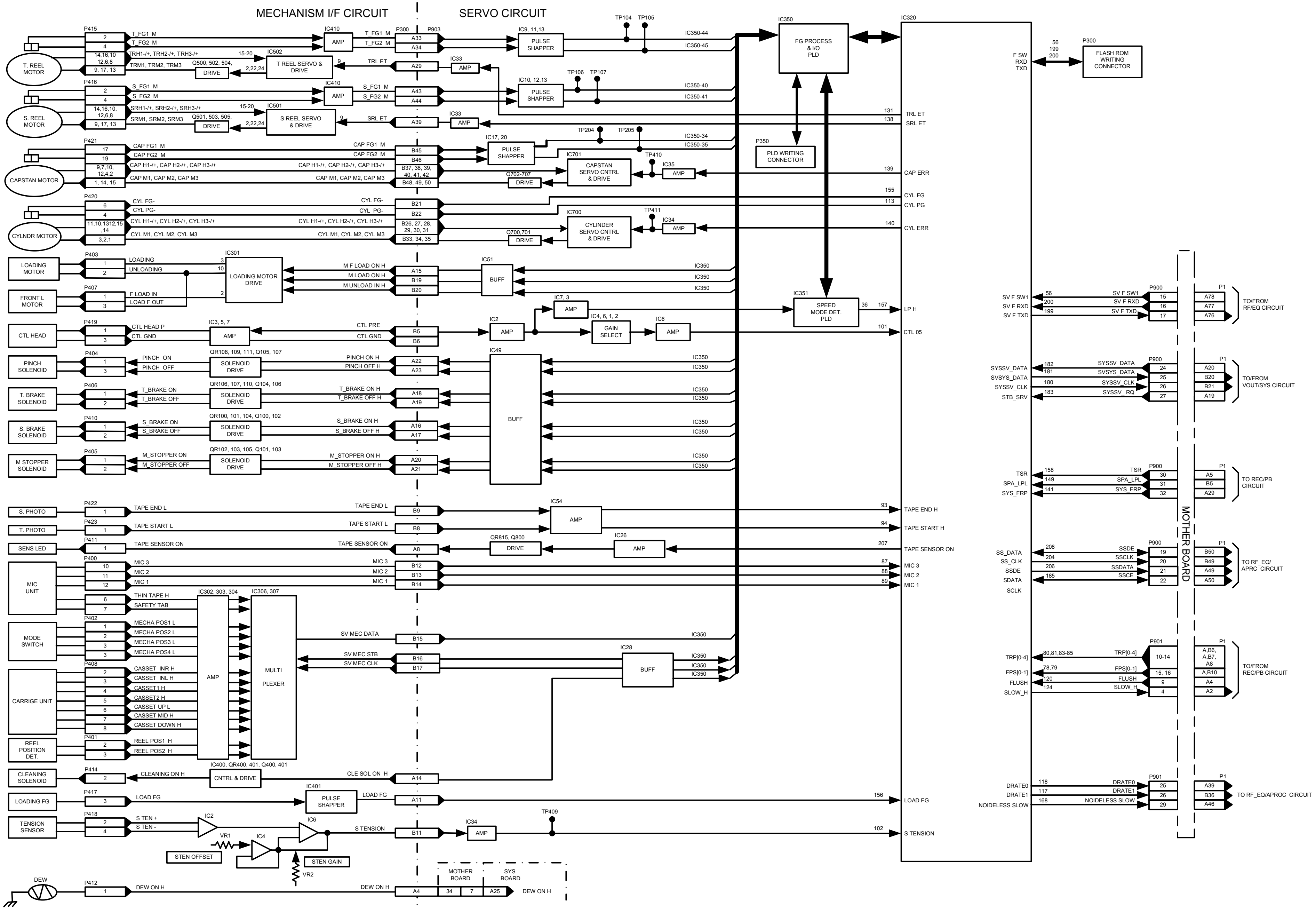


IC611<8>
IC500<7>
IC660<8>
FLASH ROM
A[17:0]
DQ[15:0]
OE
WE
CE
RY/BY
RESET
24,23,22,21,20,19,18,17,
16,9,8,7,6,5,4,3,2,1,48,
29,30,31,32,33,34,35,36,
38,39,40,41,42,43,44,45
FROM REC PB CIRCUIT
TO/FROM A I/O CIRCUIT
TO RF/EQ CIRCUIT
TO/FROM FRONT CIRCUIT
TO RF/EQ CIRCUIT
FROM RF/EQ CIRCUIT
FROM SERVO CIRCUIT
FROM POWER CIRCUIT
FROM A I/O CIRCUIT
MOTHER BOARD
P1
P4102
P403
P901
P111
P4301
A55
27
29
B6
A5
A6
20
19
18
B41
A47
A48
B48
B62
8
A12
A13
2
A1
B1
B15
A15
A16
B72
B73
A73
B23
A23
A24
B24
B19
A25
A3
CLK18
IC619<8>
BUFF
EXT LTC CLK
FROM VOUT CIRCUIT<3>
IC601, 606<8>
TC IN
PULSE SHAPER
IC621, 601<8>
TC OUT
RF EVR CLK
RF EVR DATA
RF EVR LD
TO VOUT CIRCUIT<4>
CHAR CLK
CHAR SIN
IF FRONT CLK
IF FRONT DATA
FRONT IF DATA
IC602, 604<8>
IC605<8>
SCLK
IC613<8>
SDATA
IC614<8>
SCE L
SDE
THERM SENS
DEW ON H
PSW ON H
QR502<7>
PWR FAN NG
QR501<7>
FAN DET
QR500<7>
118 CLK18
129 EXTLTCGCK
132 P113 LTCIN
131 P114 LTCOUT
6 EVRCLK
7 EVRDATA
8 EVRSTB1
140 SCLK0
141 SOUT0
142 SCLK1
144 SOUT1
2 SIN1
3 SCLK2
4 SOUT2
5 SIN2
108 P008
106 P009
107 P010
ADRS[7:0]
DATA[15:0]
35,36,37,38,39,40,41,42
14,15,20,21,22,23,24,25,
26,27,28,29,31,32,33,34
98,97,96,95,94,93,92,91,90,89,
88,87,86,85,84,83,82,81,80,79
135,134,133,132,131,130,129,128,
127,126,125,124,123,122,121120
A[11:30]
DB[0:15]
28
11
26
15
12
99 P44
73 P96
19 RESET
BLW 46 142 BLE
BHW 44 141 BHE
RD 48 140 RD
CS IN 50 100 CS0
BCLK 17 139 BCLK
OE 88 32 P103
EVR DSR 13 62 P126
DSR0 114 3 P130
DSR1 115 4 P131
DSR2 116 5 P132
LTCR IRQ 133 6 TIN19
LTCG IRQ 134 10 TIN23
EXTCLK 12 33 T012
44 AD0IN5
45 AD0IN6
34 T013
35 T014
36 T015
TXD0 108
RXD0 107
SCLOCKI0 106
P62 54
P63 53
IC503<7>
IC614<8>
IC619<8>
SYS SV DATA
SV SYS DATA
SV SYS CLK
SYS SV RQ
SV REST L
A20
B20
B21
A19
A21
P901
17
16
15
14
21
TO/FROM SERVO CIECUIT
TXD2 109
RXD2 110
IC617<8>
IC628<8>
RS-422 DRIVER / RECEIVER
15
3
14
13
1
2
9P TXD A
9P TXD B
9P RXD A
9P RXD B
A17
A18
B17
B18
16
17
18
19
FROM/TO V JACK CIRCUIT
CTX0 11
CRX0 12
CTX1 31
CRX1 9
SYS CAN TX0
SYS CAN RX0
SYS CAN TX1
SYS CAN RX1
A39
A40
B39
B40
A42
A43
B41
B42
FROM/TO REC PB CIRCUIT
FP 111
MOD1 112
MOD0 113
SCLK1 103
TXD1 104
RXD1 105
P501<7>
FLASH ROM WRITING CONNECTOR
T00 64
T01 65
SW1<7>

CUE AUDIO BLOCK DIAGRAM

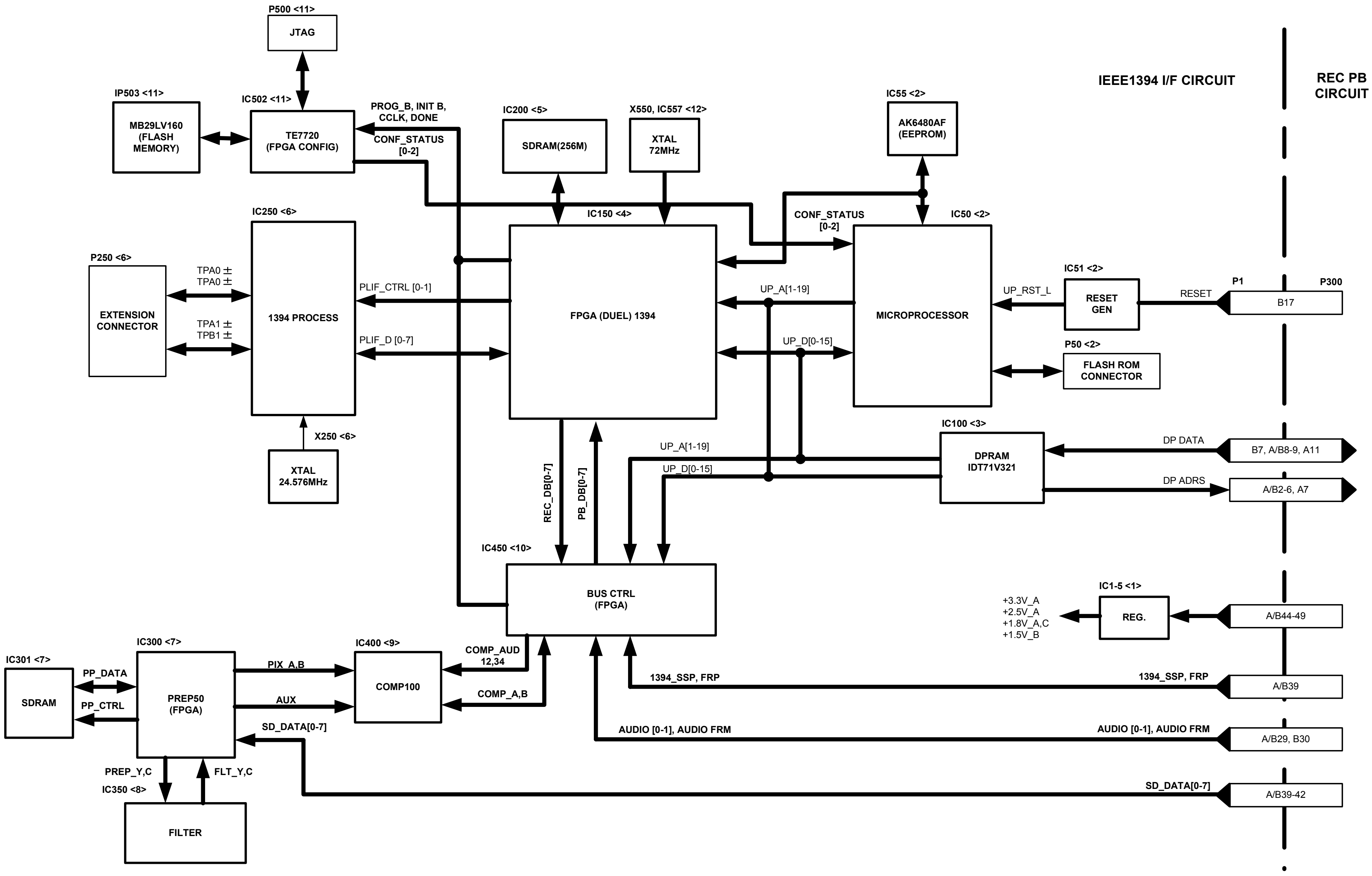

CUE RP HEAD
P4001
1
2
CUE RP +
CUE RP -
FL4001
BIAS TRAP
IC4001, L4002, C4020, 4021
REC EQ AMP
VR4002
BUFF AMP
TP4101
IC4106
NOISE CANCE-LLER
QR4005, Q4008
Q4009, 4010
FL4101 IC4104
LPF
IC4103
IC4209
BUFF
IC4209
BUFF
Q4201, QR4201-2
MUTE
IC4207
D/A
A/D
IC4201
BUFF
IC4201
BUFF
CUE PB OUT
CUE DA IN
CUE MCK
CUE BCK
CUE WCK
CUE MUTE H
CUE PB REC N
CUE EE PB N
P1
A12
B6
A5
A6
A7
B13
A30
B30
P4001
A77
B151
A70
A71
A72
B158
B154
A75
FROM APROC CIRCUIT
BLK-8
FROM APROC CIRCUIT
MOTHER BOARD
P4001
B76
B77
B76
A76
P1
B11
B12
B11
A11
CUE HS REC
CUE HS PB
CUE BIAS ON
CUE ERASE ON
TP4002
TP4003
IC4001, C4027
PB EQ AMP
QR4006-7
Q4011, Q4012
Q4005, 4 QR4002
T4002, Q4006
CUE BIAS OSC
VR4001
BIAS
Q4001, 2, QR4001
T4001, Q4003
CUE ERASE OSC
CUE ERASE HEAD
CTL ERASE HEAD
P4001
4
5
7
8
CUE E+
CUE E-
CTL E+
CTL E-
IC4108
PB EQ AMP
IC4109
PB EQ AMP
VR4103
CUE PB
VR4104
150 BEF
IC4109
ATT
IC4103
R4119-22
ATT
IC4105
SELECT
IC4103
CUE SLOW H
CUE ATT0
CUE ATT1
CUE X4 L
B4
A3
B3
A25
B149
A68
B148
A69
MOTHER BOARD
IC4309
PB EQ AMP
IC4108
C LV18
VR4306
VR4305
IC4309
PB EQ AMP
C LV9
VR4301
VR4302
C PS18
C PS9
IC4308
IC4302
AMP
IC4303
AMP
CYL FG-
P1
B15
P402
5
FROM SERVO CIRCUIT
9H 18L
P1
B24
P4001
B24
FROM APROC CIRCUIT

SERVO BLOCK DIAGRAM

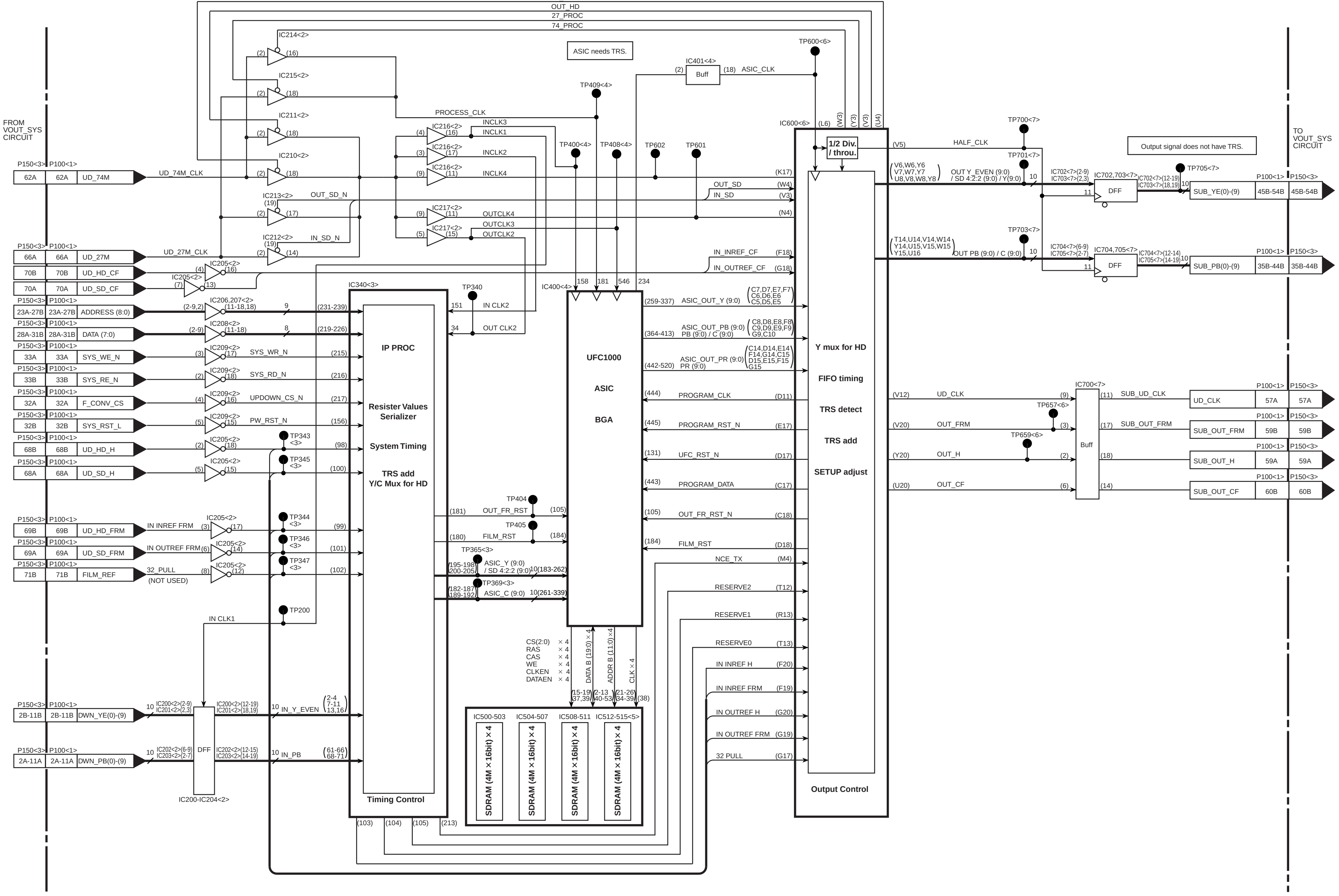


MECHANISM I/F CIRCUIT
SERVO CIRCUIT
T. REEL MOTOR
S. REEL MOTOR
CAPSTAN MOTOR
CYLNDR MOTOR
LOADING MOTOR
FRONT L MOTOR
CTL HEAD
PINCH SOLENOID
T. BRAKE SOLENOID
S. BRAKE SOLENOID
M STOPPER SOLENOID
S. PHOTO
T. PHOTO
SENS LED
MIC UNIT
MODE SWITCH
CARRIGE UNIT
REEL POSITION DET.
CLEANING SOLENOID
LOADING FG
TENSION SENSOR
DEW
P415
P416
P421
P420
P403
P407
P419
P404
P406
P410
P405
P422
P423
P411
P400
P402
P408
P401
P414
P417
P418
P412
T_FG1 M
T_FG2 M
TRH1-/+, TRH2-/+, TRH3-/+
TRM1, TRM2, TRM3
S_FG1 M
S_FG2 M
SRH1-/+, SRH2-/+, SRH3-/+
SRM1, SRM2, SRM3
CAP FG1 M
CAP FG2 M
CAP H1-/+, CAP H2-/+, CAP H3-/+
CAP M1, CAP M2, CAP M3
CYL FG-
CYL PG-
CYL H1-/+, CYL H2-/+, CYL H3-/+
CYL M1, CYL M2, CYL M3
LOADING
UNLOADING
F LOAD IN
LOAD F OUT
CTL HEAD P
CTL GND
PINCH ON
PINCH OFF
T_BRAKE ON
T_BRAKE OFF
S_BRAKE ON
S_BRAKE OFF
M_STOPPER ON
M_STOPPER OFF
TAPE END L
TAPE START L
TAPE SENSOR ON
MIC 3
MIC 2
MIC 1
THIN TAPE H
SAFETY TAB
MECHA POS1 L
MECHA POS2 L
MECHA POS3 L
MECHA POS4 L
CASSET INR H
CASSET INL H
CASSET1 H
CASSET2 H
CASSET UP L
CASSET MID H
CASSET DOWN H
REEL POS1 H
REEL POS2 H
CLEANING ON H
LOAD FG
S TEN +
S TEN -
DEW ON H
IC410 AMP
IC502 T REEL SERVO & DRIVE
IC501 S REEL SERVO & DRIVE
Q500, 502, 504, DRIVE
Q501, 503, 505, DRIVE
IC301 LOADING MOTOR DRIVE
IC3, 5, 7 AMP
QR108, 109, 111, Q105, 107 SOLENOID DRIVE
QR106, 107, 110, Q104, 106 SOLENOID DRIVE
QR100, 101, 104, Q100, 102 SOLENOID DRIVE
QR102, 103, 105, Q101, 103 SOLENOID DRIVE
IC302, 303, 304 AMP
IC306, 307 MULTI PLEXER
IC400, QR400, 401, Q400, 401 CNTRL & DRIVE
IC401 PULSE SHAPPER
IC2
IC4
IC6
VR1
VR2
STEN OFFSET
STEN GAIN
P300
P903
A33
A34
A29
A43
A44
A39
B45
B46
B37, 38, 39, 40, 41, 42
B48, 49, 50
B21
B22
B26, 27, 28, 29, 30, 31
B33, 34, 35
A15
B19
B20
B5
B6
A22
A23
A18
A19
A16
A17
A20
A21
B9
B8
A8
B12
B13
B14
B15
B16
B17
A14
A11
B11
A4
TRL ET
SRL ET
M F LOAD ON H
M LOAD ON H
M UNLOAD IN H
CTL PRE
PINCH ON H
PINCH OFF H
T_BRAKE ON H
T_BRAKE OFF H
S_BRAKE ON H
S_BRAKE OFF H
M_STOPPER ON H
M_STOPPER OFF H
SV MEC DATA
SV MEC STB
SV MEC CLK
CLE SOL ON H
S TENSION
IC9, 11, 13 PULSE SHAPPER
IC10, 12, 13 PULSE SHAPPER
IC33 AMP
IC17, 20 PULSE SHAPPER
IC701 CAPSTAN SERVO CNTRL & DRIVE
IC700 CYLINDER SERVO CNTRL & DRIVE
IC35 AMP
IC34 AMP
Q702-707 DRIVE
Q700,701 DRIVE
IC51 BUFF
IC7, 3 AMP
IC2 AMP
IC4, 6, 1, 2 GAIN SELECT
IC6 AMP
IC49 BUFF
IC54 AMP
QR815, Q800 DRIVE
IC26 AMP
IC28 BUFF
IC34 AMP
TP104
TP105
TP106
TP107
TP204
TP205
TP410
TP411
TP409
IC350-44
IC350-45
IC350-40
IC350-41
IC350-34
IC350-35
IC350
IC350 FG PROCESS & I/O PLD
P350 PLD WRITING CONNECTOR
IC351 SPEED MODE DET. PLD
IC320
F SW
RXD
TXD
56
199
200
P300 FLASH ROM WRITING CONNECTOR
131 TRL ET
138 SRL ET
139 CAP ERR
155 CYL FG
113 CYL PG
140 CYL ERR
36
157 LP H
101 CTL 05
93 TAPE END H
94 TAPE START H
207 TAPE SENSOR ON
87 MIC 3
88 MIC 2
89 MIC 1
156 LOAD FG
102 S TENSION
MOTHER BOARD
SYS BOARD
34
7
A25
DEW ON H
SV F SW1
SV F RXD
SV F TXD
P900
P1
15
16
17
A78
A77
A76
TO/FROM RF/EQ CIRCUIT
SYSSV_DATA
SVSYS_DATA
SYSSV_CLK
STB_SRV
SYSSV_RQ
182
181
180
183
24
25
26
27
A20
B20
B21
A19
TO/FROM VOUT/SYS CIRCUIT
TSR
SPA_LPL
SYS_FRP
158
149
141
30
31
32
A5
B5
A29
TO REC/PB CIRCUIT
SS_DATA
SS_CLK
SSDE
SDATA
SCLK
SSDE
SSCLK
SSDATA
SSCE
208
204
206
185
19
20
21
22
B50
B49
A49
A50
TO RF_EQ/ APRC CIRCUIT
TRP[0-4]
FPS[0-1]
FLUSH
SLOW_H
80,81,83-85
78,79
120
124
P901
10-14
15, 16
9
4
A,B6, A,B7, A8
A,B10
A4
A2
TO/FROM REC/PB CIRCUIT
DRATE0
DRATE1
NOIDELESS SLOW
118
117
168
25
26
29
A39
B36
A46
TO RF_EQ/APROC CIRCUIT

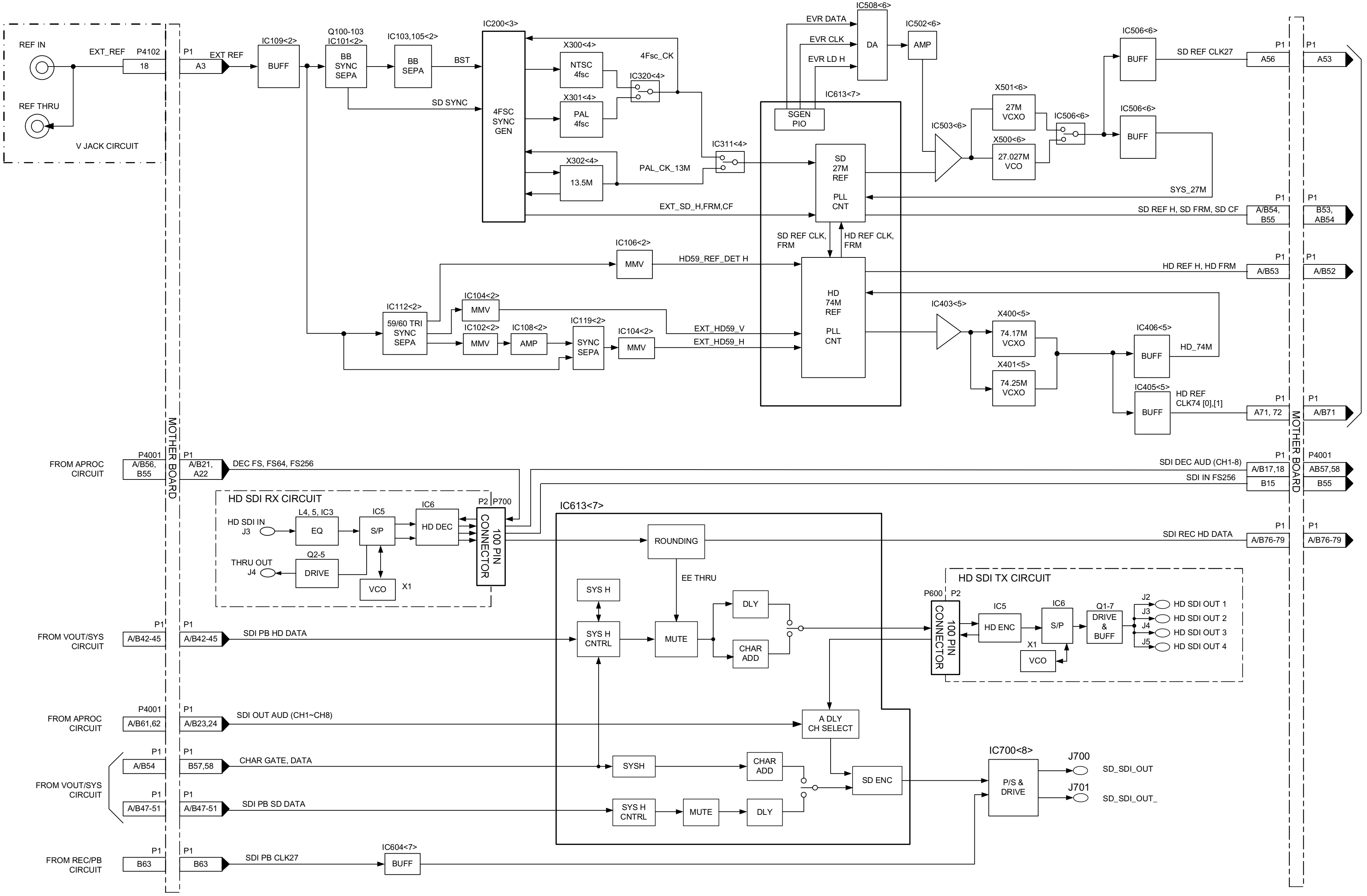
IEEE1394 I/F (AJ-YAD120AG) BLOCK DIAGRAM


P500 <11>
JTAG
IP503 <11>
MB29LV160 (FLASH MEMORY)
IC502 <11>
TE7720 (FPGA CONFIG)
PROG_B, INIT B, CCLK, DONE
CONF_STATUS [0-2]
IC200 <5>
SDRAM(256M)
X550, IC557 <12>
XTAL 72MHz
IEEE1394 I/F CIRCUIT
REC PB CIRCUIT
IC55 <2>
AK6480AF (EEPROM)
IC250 <6>
IC150 <4>
CONF_STATUS [0-2]
IC50 <2>
P250 <6>
EXTENSION CONNECTOR
TPA0 ±
TPA0 ±
TPA1 ±
TPB1 ±
1394 PROCESS
PLIF_CTRL [0-1]
PLIF_D [0-7]
FPGA (DUEL) 1394
UP_A[1-19]
UP_D[0-15]
MICROPROCESSOR
UP_RST_L
IC51 <2>
RESET GEN
RESET
P1
P300
B17
P50 <2>
FLASH ROM CONNECTOR
X250 <6>
XTAL 24.576MHz
REC_DB[0-7]
PB_DB[0-7]
UP_A[1-19]
UP_D[0-15]
IC100 <3>
DPRAM IDT71V321
DP DATA
B7, A/B8-9, A11
DP ADRS
A/B2-6, A7
IC450 <10>
BUS CTRL (FPGA)
IC1-5 <1>
+3.3V_A
+2.5V_A
+1.8V_A,C
+1.5V_B
REG.
A/B44-49
IC300 <7>
IC400 <9>
COMP_AUD 12,34
IC301 <7>
PP_DATA
PP_CTRL
SDRAM
PREP50 (FPGA)
PIX_A,B
AUX
COMP100
COMP_A,B
1394_SSP, FRP
1394_SSP, FRP
A/B39
SD_DATA[0-7]
AUDIO [0-1], AUDIO FRM
AUDIO [0-1], AUDIO FRM
A/B29, B30
PREP_Y,C
FLT_Y,C
IC350 <8>
SD_DATA[0-7]
A/B39-42
FILTER

UDC (AJ-YA120AG) BLOCK DIAGRAM

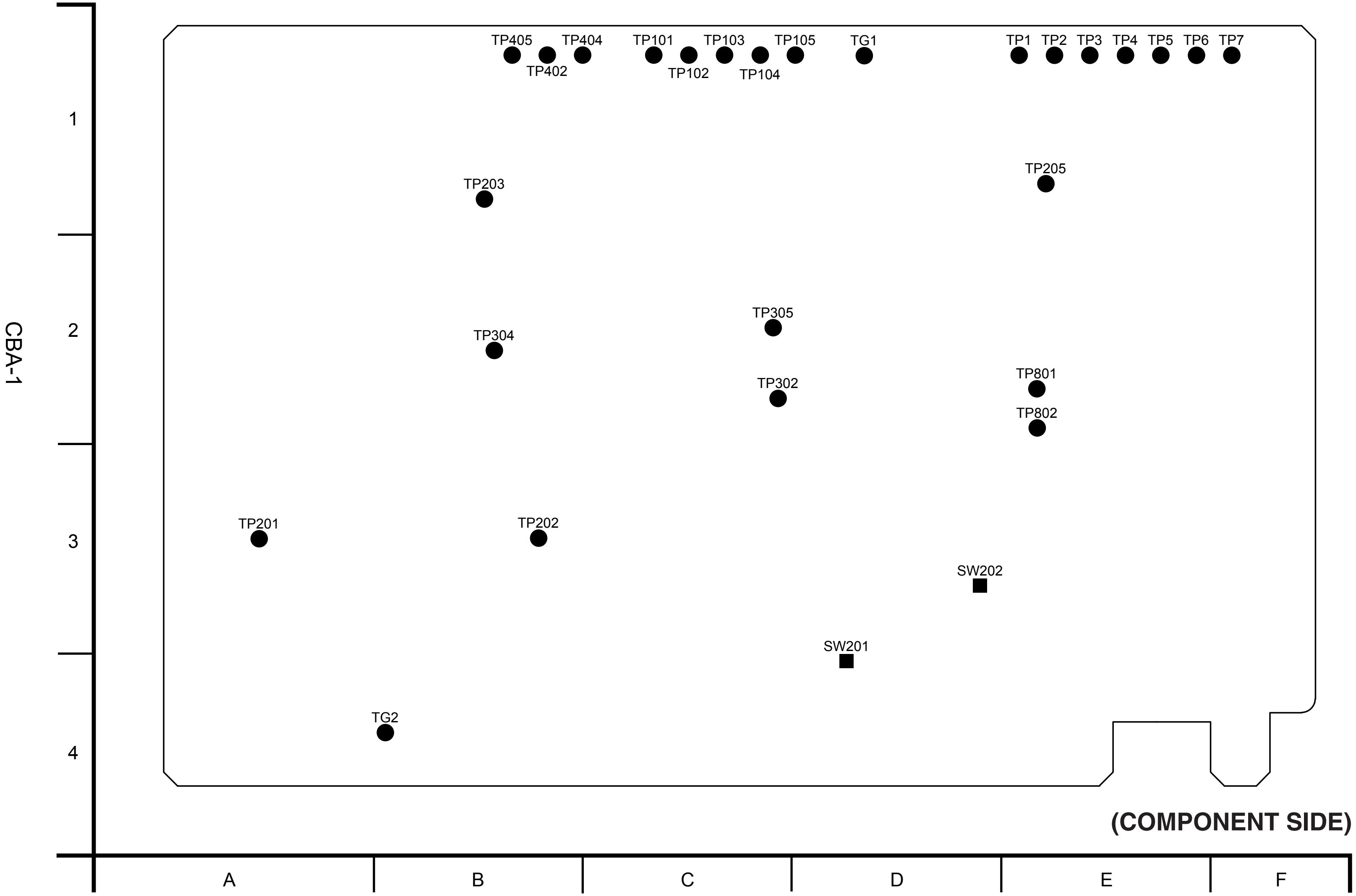

IN_HD
OUT_HD
27_PROC
74_PROC
ASIC needs TRS.
Output signal does not have TRS.
FROM VOUT_SYS CIRCUIT
TO VOUT_SYS CIRCUIT
IC214<2>
IC215<2>
IC211<2>
IC210<2>
IC213<2>
IC212<2>
IC216<2>
IC217<2>
IC205<2>
IC206,207<2>
IC208<2>
IC209<2>
IC401<4>
Buff
ASIC_CLK
TP600<6>
TP409<4>
TP400<4>
TP408<4>
TP602
TP601
PROCESS_CLK
INCLK3
INCLK1
INCLK2
INCLK4
OUTCLK4
OUTCLK3
OUTCLK2
OUT_SD_N
IN_SD_N
UD_74M_CLK
UD_27M_CLK
P150<3>
P100<1>
62A
UD_74M
66A
UD_27M
70B
UD_HD_CF
70A
UD_SD_CF
23A-27B
ADDRESS (8:0)
28A-31B
DATA (7:0)
33A
SYS_WE_N
33B
SYS_RE_N
32A
F_CONV_CS
32B
SYS_RST_L
68B
UD_HD_H
68A
UD_SD_H
69B
UD_HD_FRM
69A
UD_SD_FRM
71B
FILM_REF
2B-11B
DWN_YE(0)-(9)
2A-11A
DWN_PB(0)-(9)
SYS_WR_N
SYS_RD_N
UPDOWN_CS_N
PW_RST_N
IN INREF FRM
IN OUTREF FRM
32_PULL
(NOT USED)
IN CLK1
TP343 <3>
TP345 <3>
TP344 <3>
TP346 <3>
TP347 <3>
TP200
TP340
IC340<3>
IP PROC
Resister Values Serializer
System Timing
TRS add Y/C Mux for HD
Timing Control
IN CLK2
OUT CLK2
IC200-IC204<2>
DFF
IN_Y_EVEN
IN_PB
TP404
TP405
TP365<3>
TP369<3>
OUT_FR_RST
FILM_RST
ASIC_Y (9:0) / SD 4:2:2 (9:0)
ASIC_C (9:0)
IC400<4>
UFC1000
ASIC
BGA
ASIC_OUT_Y (9:0)
ASIC_OUT_PB (9:0) PB (9:0) / C (9:0)
ASIC_OUT_PR (9:0) PR (9:0)
PROGRAM_CLK
PROGRAM_RST_N
UFC_RST_N
PROGRAM_DATA
OUT_FR_RST_N
FILM_RST
NCE_TX
RESERVE2
RESERVE1
RESERVE0
IN INREF H
IN INREF FRM
IN OUTREF H
IN OUTREF FRM
32 PULL
CS(2:0) × 4
RAS × 4
CAS × 4
WE × 4
CLKEN × 4
DATAEN × 4
DATA B (19:0) × 4
ADDR B (11:0) × 4
CLK × 4
IC500-503
IC504-507
IC508-511
IC512-515<5>
SDRAM (4M × 16bit) × 4
IC600<6>
1/2 Div. / throu.
Y mux for HD
FIFO timing
TRS detect
TRS add
SETUP adjust
Output Control
OUT_SD
IN_SD
IN_INREF_CF
IN_OUTREF_CF
HALF_CLK
TP700<7>
TP701<7>
TP703<7>
TP705<7>
OUT Y_EVEN (9:0) / SD 4:2:2 (9:0) / Y (9:0)
OUT PB (9:0) / C (9:0)
IC702,703<7>
IC704,705<7>
DFF
SUB_YE(0)-(9)
45B-54B
SUB_PB(0)-(9)
35B-44B
IC700<7>
Buff
UD_CLK
OUT_FRM
OUT_H
OUT_CF
SUB_UD_CLK
SUB_OUT_FRM
TP657<6>
TP659<6>
57A
SUB_OUT_FRM
59B
SUB_OUT_H
59A
SUB_OUT_CF
60B

SGEN/SDI (AJ-YA120AG) BLOCK DIAGRAM



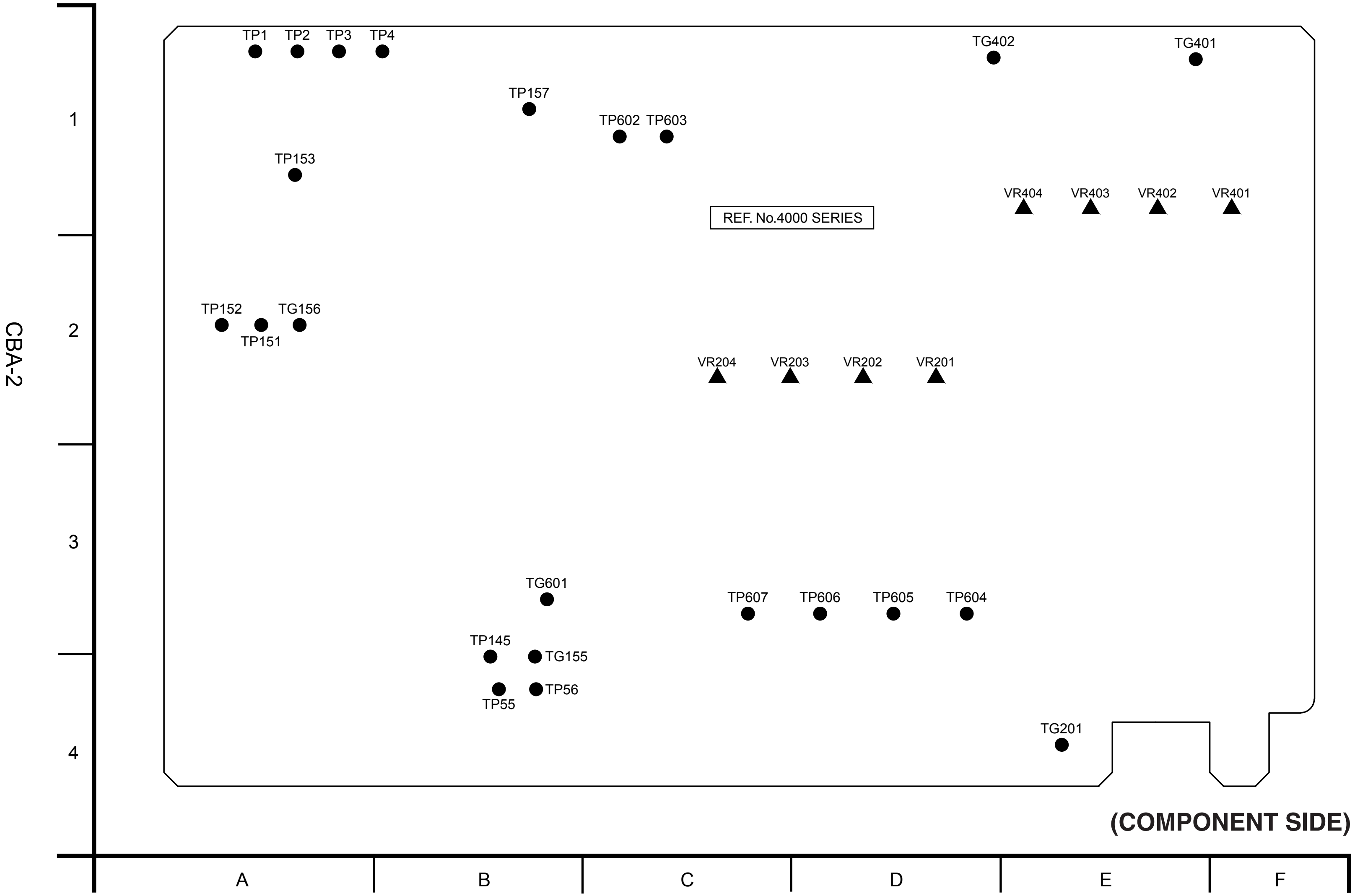
REF IN
REF THRU
V JACK CIRCUIT
EXT_REF
P4102
18
P1
A3
EXT REF
MOTHER BOARD
IC109<2>
BUFF
Q100-103
IC101<2>
BB SYNC SEPA
IC103,105<2>
BB SEPA
BST
SD SYNC
IC200<3>
4FSC SYNC GEN
X300<4>
NTSC 4fsc
X301<4>
PAL 4fsc
4Fsc_CK
IC320<4>
X302<4>
13.5M
PAL_CK_13M
IC311<4>
EXT_SD_H,FRM,CF
IC508<6>
EVR DATA
EVR CLK
EVR LD H
DA
IC502<6>
AMP
IC613<7>
SGEN PIO
SD 27M REF PLL CNT
IC503<6>
X501<6>
27M VCXO
X500<6>
27.027M VCO
IC506<6>
BUFF
SD REF CLK27
A56
A53
SYS_27M
SD REF H, SD FRM, SD CF
A/B54, B55
B53, AB54
SD REF CLK, FRM
HD REF CLK, FRM
IC106<2>
MMV
HD59_REF_DET H
HD REF H, HD FRM
A/B53
A/B52
TO REC/PB CIRCUIT
HD 74M REF PLL CNT
IC112<2>
59/60 TRI SYNC SEPA
IC104<2>
MMV
IC102<2>
MMV
IC108<2>
AMP
IC119<2>
SYNC SEPA
IC104<2>
MMV
EXT_HD59_V
EXT_HD59_H
IC403<5>
X400<5>
74.17M VCXO
X401<5>
74.25M VCXO
IC406<5>
BUFF
HD_74M
IC405<5>
BUFF
HD REF CLK74 [0],[1]
A71, 72
A/B71
FROM APROC CIRCUIT
P4001
A/B56, B55
A/B21, A22
DEC FS, FS64, FS256
SDI DEC AUD (CH1-8)
A/B17,18
AB57,58
TO APROC CIRCUIT
SDI IN FS256
B15
B55
HD SDI RX CIRCUIT
HD SDI IN J3
L4, 5, IC3
EQ
IC5
S/P
IC6
HD DEC
P2
P700
100 PIN CONNECTOR
THRU OUT J4
Q2-5
DRIVE
VCO
X1
IC613<7>
ROUNDING
SDI REC HD DATA
A/B76-79
TO REC/PB CIRCUIT
EE THRU
SYS H
HD SDI TX CIRCUIT
P600
P2
FROM VOUT/SYS CIRCUIT
A/B42-45
SDI PB HD DATA
SYS H CNTRL
MUTE
DLY
CHAR ADD
100 PIN CONNECTOR
IC5
HD ENC
IC6
S/P
Q1-7
DRIVE & BUFF
X1
VCO
J2
J3
J4
J5
HD SDI OUT 1
HD SDI OUT 2
HD SDI OUT 3
HD SDI OUT 4
FROM APROC CIRCUIT
A/B61,62
A/B23,24
SDI OUT AUD (CH1~CH8)
A DLY CH SELECT
FROM VOUT/SYS CIRCUIT
A/B54
B57,58
CHAR GATE, DATA
SYSH
CHAR ADD
SD ENC
A/B47-51
SDI PB SD DATA
SYS H CNTRL
MUTE
DLY
IC700<8>
P/S & DRIVE
J700
SD_SDI_OUT
J701
SD_SDI_OUT_
FROM REC/PB CIRCUIT
B63
SDI PB CLK27
IC604<7>
BUFF

RF/EQ P.C.BOARD (VEP85214) [F1]


CBA-1
1
2
3
4
A
B
C
D
E
F
TP405
TP402
TP404
TP101
TP102
TP103
TP104
TP105
TG1
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP203
TP205
TP305
TP304
TP302
TP801
TP802
TP201
TP202
SW202
SW201
TG2
(COMPONENT SIDE)

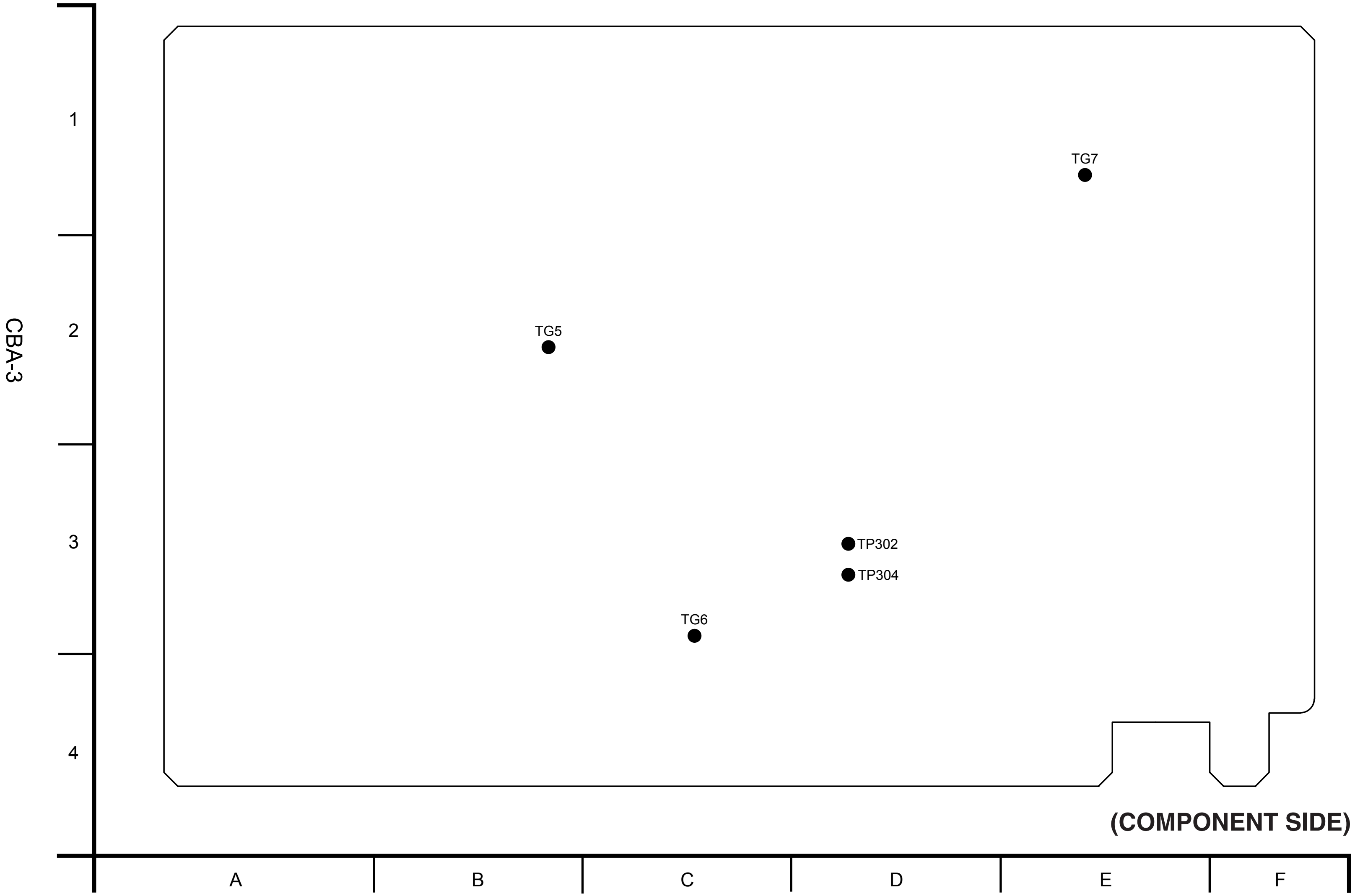
REF	LOC	REF	LOC
IC2	E1	Q201	D3
IC3	E2	Q202	D3
IC4	E1	Q306	B3
IC5	E1	Q307	B4
IC6	E2	Q406	C3
IC7	E2	Q407	C4
IC8	E2	Q507	B1
IC9	E1	Q557	C1
IC101	F1	Q607	D1
IC102	E1	Q702	C3
IC103	E1	Q732	B2
IC104	F2	Q762	D2
IC105	E2	Q802	E3
IC106	F2	Q803	E3
IC107	F1	QR1302	F3
IC203	D3	QR1303	F3
IC206	D4	QR1304	E3
IC301	B3	QR1305	E3
IC302	B3	QR1306	E3
IC351	A4	QR1307	E3
IC401	C3	QR1308	F3
IC402	C3	QR1309	F3
IC451	C4	QR1310	F3
IC501	A1		
IC502	B1		
IC551	C1	SW201	D4
IC552	C1	SW202	D3
IC601	D1		
IC602	D1		
IC701	D3	TG1	D1
IC731	B2	TG2	B4
IC761	D2	TP1	E1
IC801	B3	TP2	E1
IC805	D2	TP3	E1
IC806	D2	TP4	E1
IC901	C3	TP5	E1
IC904	A2	TP6	E1
IC1001	B2	TP7	F1
IC1101	C2	TP101	C1
IC1201	D2	TP102	C1
IC1301	F3	TP103	C1
IC1303	E3	TP104	C1
IC1304	E3	TP105	D1
IC1305	E3	TP201	A3
		TP202	B3
		TP203	B1
P1	C4	TP204	C1
P2	E3	TP205	E1
P3	B1	TP302	C2
P4	A1	TP304	B2
		TP305	C2
		TP402	B1
		TP404	C1
		TP405	B1
		TP801	E2
		TP802	E2

APROC P.C.BOARD (VEP84393) [F2]


CBA-2
1
2
3
4
A
B
C
D
E
F
TP1
TP2
TP3
TP4
TG402
TG401
TP157
TP602
TP603
TP153
VR404
VR403
VR402
VR401
REF. No.4000 SERIES
TP152
TG156
TP151
VR204
VR203
VR202
VR201
TG601
TP607
TP606
TP605
TP604
TP145
TG155
TP55
TP56
TG201
(COMPONENT SIDE)

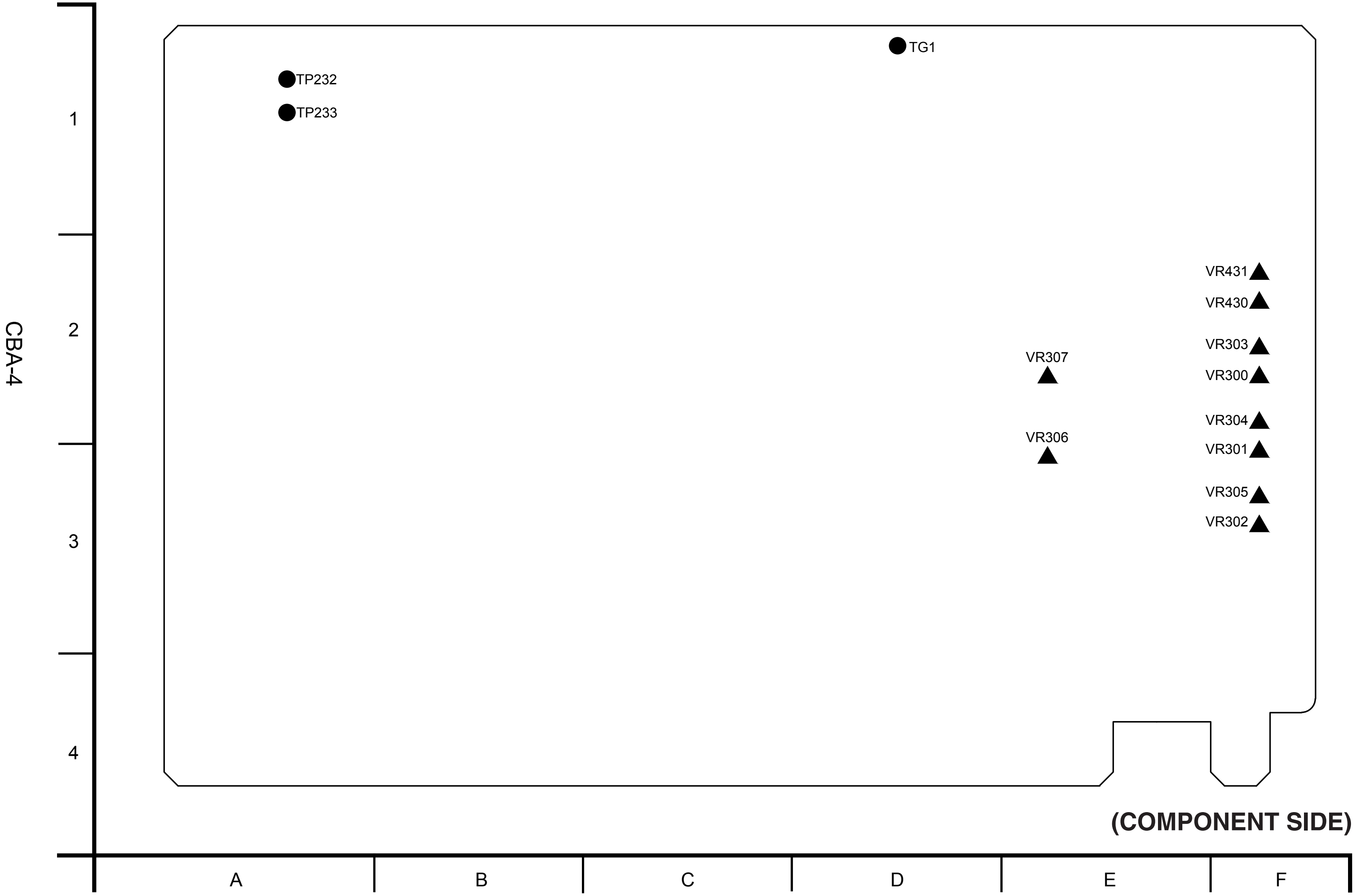
REF	LOC	REF	LOC
IC4004	A1	P4001	C4
IC4005	A1	P4002	B1
IC4007	B3		
IC4058	B2		
IC4059	B3	Q4604	C4
IC4109	B3	QR4601	C4
IC4110	A3	QR4602	C4
IC4111	A3		
IC4112	B3		
IC4163	B2	TG4155	B4
IC4167	A4	TG4156	A2
IC4169	B1	TG4157	B1
IC4170	B2	TG4201	E4
IC4171	A3	TG4401	E1
IC4172	B1	TG4402	D1
IC4173	A4	TG4601	B3
IC4205	F3	TP4001	A1
IC4206	E3	TP4002	A1
IC4207	E3	TP4003	A1
IC4208	E3	TP4004	B1
IC4221	F3	TP4055	B4
IC4222	E3	TP4056	B4
IC4223	E3	TP4151	A2
IC4224	E3	TP4152	A2
IC4225	F2	TP4153	A1
IC4226	E2	TP4154	B4
IC4227	E2	TP4602	C1
IC4228	E2	TP4603	C1
IC4409	E1	TP4604	D3
IC4410	D1	TP4605	D3
IC4411	C1	TP4606	D3
IC4601	D3	TP4607	C3
IC4602	C3		
IC4603	D4		
IC4606	D3	VR4201	D2
IC4607	D3	VR4202	D2
IC4613	D3	VR4203	C2
IC4615	D3	VR4204	C2
IC4617	C3	VR4401	F1
IC4618	D3	VR4402	E1
IC4620	D3	VR4403	E1
IC4622	C3	VR4404	E1
IC4624	D3		
IC4626	C3		
IC4639	C1		
IC4642	C1		
IC4646	C1		
IC4805	C2		

REC PB P.C.BOARD (VEP83624) [F3]


CBA-3
1
2
3
4
TG7
TG5
TP302
TP304
TG6
(COMPONENT SIDE)
A
B
C
D
E
F

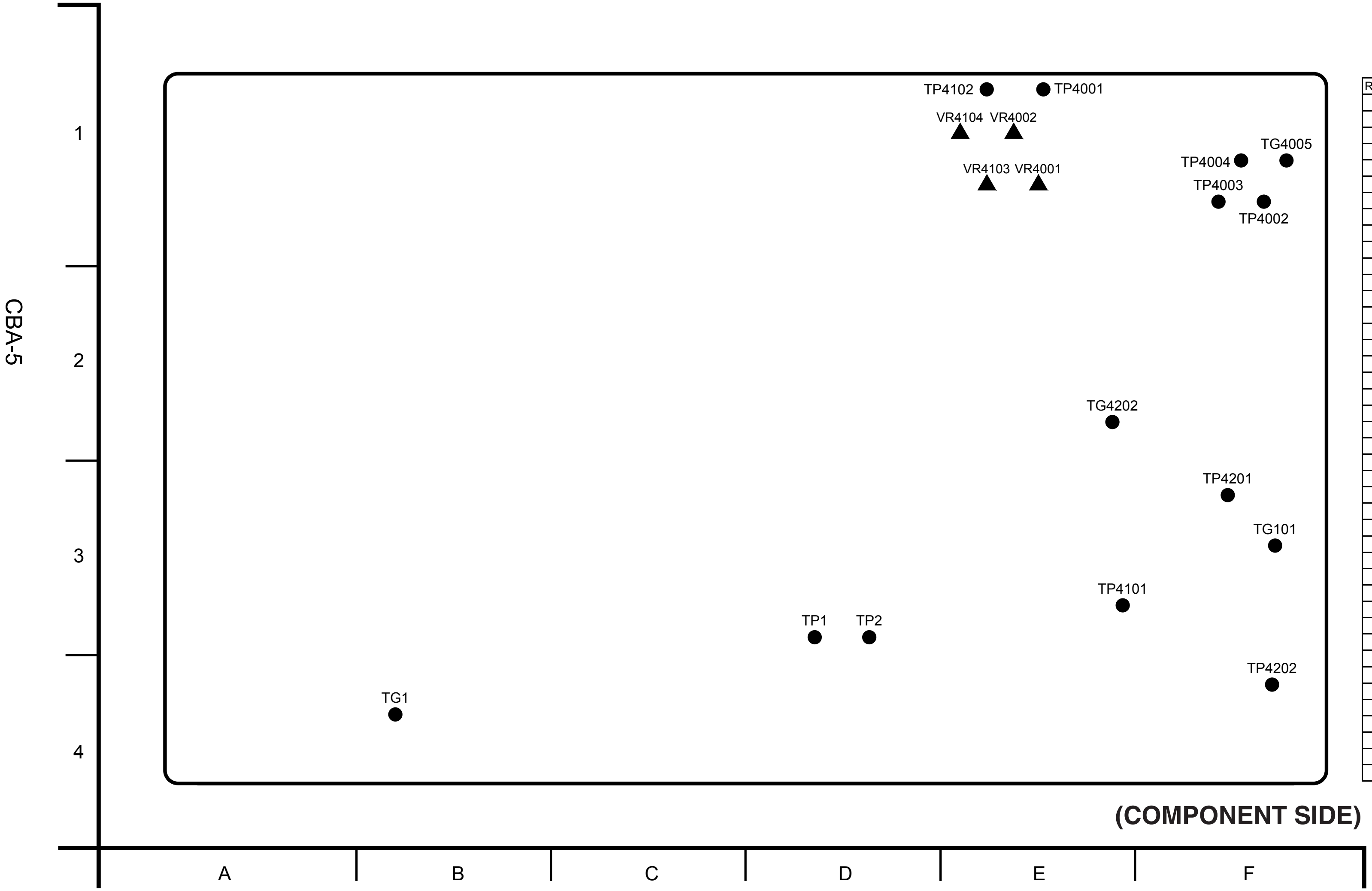
REF	LOC
IC1	B3
IC2	C4
IC3	B3
IC4	B3
IC53	C3
IC100	C2
IC150	A2
IC157	A2
IC158	D3
IC250	B1
IC251	A1
IC300	D2
IC370	F3
IC372	F3
IC373	E2
IC450	E1
IC500	E3
IC556	A4
IC558	D4
IC559	D4
IC560	D4
IC561	C4
IC660	D1
P1	C4
P2	E3
P3	E1
P300	D1
P651	E1
TG5	B2
TG6	C3
TG7	E1
TP302	D3
TP304	D3

V OUT SYS P.C.BOARD (VEP83625) [F4]


TG1
TP232
TP233
VR431
VR430
VR303
VR307
VR300
VR304
VR306
VR301
VR305
VR302
CBA-4
1
2
3
4
A
B
C
D
E
F
(COMPONENT SIDE)

REF	LOC	REF	LOC
IC30	B3	Q304	E2
IC31	C3	Q305	E3
IC33	C3	Q433	E1
IC36	B4	QR500	D2
IC40	A3	QR501	D2
IC41	A2	QR503	D1
IC42	B4		
IC45	A3		
IC150	C2	SW1	E1
IC230	B1		
IC232	A1		
IC302	D1	TG1	D1
IC306	E3	TP232	A1
IC307	F3	TP233	A1
IC310	D3		
IC312	E3		
IC431	E1	VR300	F2
IC500	D1	VR301	F3
IC504	D1	VR302	F3
IC601	E4	VR303	F2
IC604	D2	VR304	F2
IC605	D2	VR305	F3
IC610	D4	VR306	E3
IC611	D3	VR307	E2
IC628	D4	VR430	F2
IC629	E4	VR431	F2
P1	C4		
P2	E3		
P500	A1		
P501	B1		

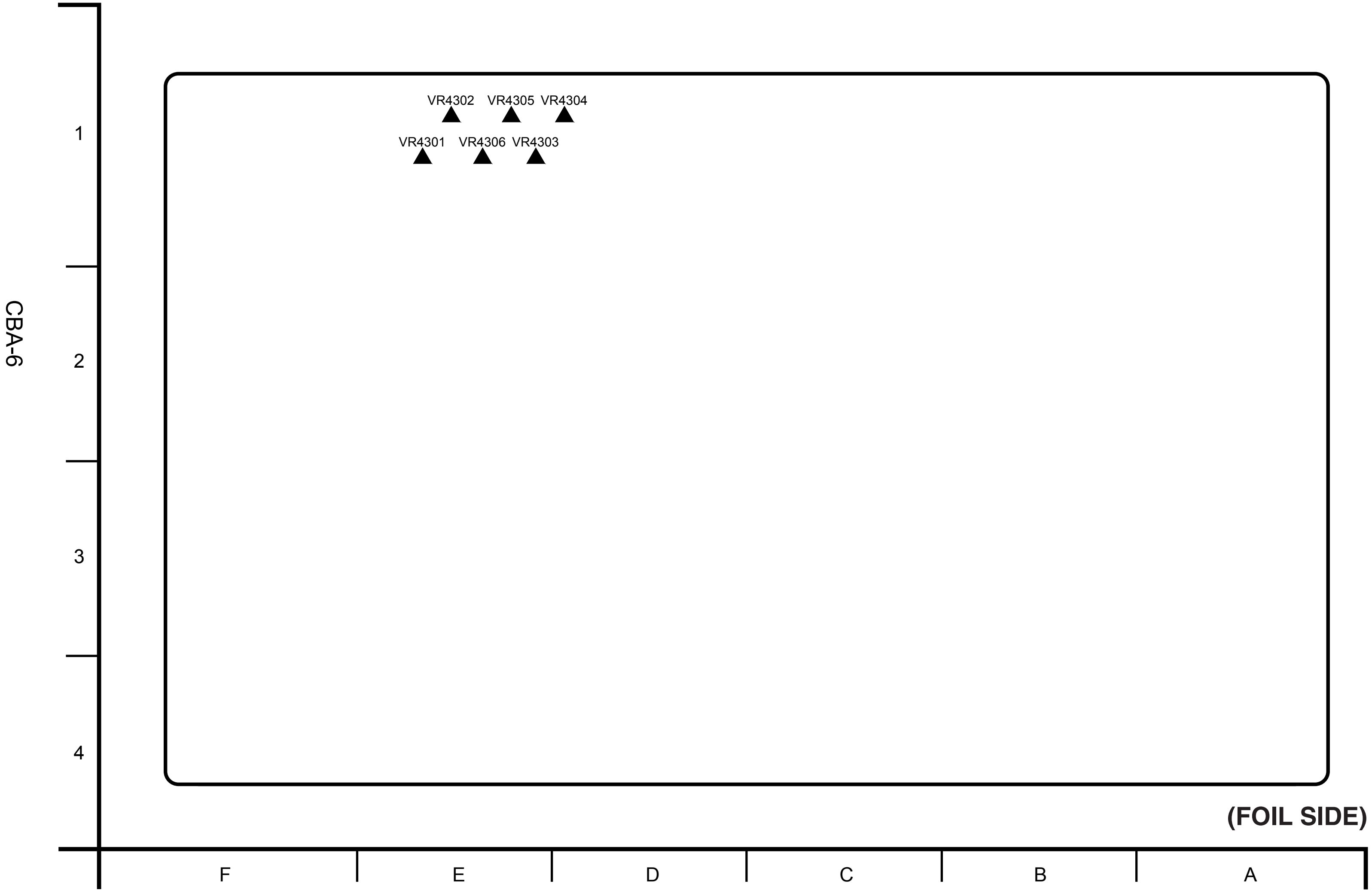
RF/CUE P.C.BOARD (VEP85215)


CBA-5
1
2
3
4
A
B
C
D
E
F
TP4102
TP4001
VR4104
VR4002
VR4103
VR4001
TP4004
TG4005
TP4003
TP4002
TG4202
TP4201
TG101
TP4101
TP1
TP2
TP4202
TG1

(COMPONENT SIDE)

REF	LOC	REF	LOC	REF	LOC
IC1	D1	Q1	C2	Q464	B1
IC2	C1	Q2	D1	Q501	B3
IC3	C1	Q3	C1	Q502	B3
IC4	C1	Q4	C2	Q531	C3
IC5	D1	Q5	D1	Q560	D3
IC7	C2	Q6	D1	Q561	D3
IC8	C2	Q7	C2	Q580	D3
IC9	C1	Q8	D2	Q581	D3
IC10	C2	Q9	C2	Q601	D2
IC11	C2	Q106	B1	Q602	D2
IC12	C2	Q107	C1	Q4201	F3
IC401	B4	Q108	C1	QR601	D2
IC402	A4	Q110	B1	QR602	D2
IC431	C3	Q111	C1	QR4201	F3
IC432	C2	Q112	C1	QR4202	F3
IC461	B1	Q114	B1		
IC462	B1	Q116	B1		
IC501	B3	Q176	B2	TG1	B4
IC502	A3	Q177	C2	TG4005	F1
IC531	C3	Q178	C1	TG4101	F3
IC532	C3	Q180	B2	TG4203	E2
IC4102	E4	Q181	C2	TP1	D3
IC4103	E3	Q182	C1	TP2	D3
IC4104	E3	Q184	B2	TP4001	E1
IC4106	E4	Q186	B2	TP4002	F1
IC4108	E1	Q256	B2	TP4003	F1
IC4109	D1	Q257	C2	TP4004	F1
IC4201	F3	Q260	B2	TP4101	E3
IC4203	F4	Q261	C2	TP4102	E1
IC4204	F4	Q264	B2	TP4201	F3
IC4205	F3	Q266	B2	TP4202	F4
IC4207	F3	Q326	B2		
IC4308	E2	Q327	C3		
IC4312	D2	Q330	B2	VR4001	E1
IC4313	E2	Q331	C2	VR4002	E1
		Q334	B3	VR4103	E1
		Q336	B3	VR4104	E1
P1	E4	Q401	B4		
P2	D1	Q402	B4		
P3	C3	Q431	C2		
P4	D4	Q461	B1		
P4001	E1	Q462	B1		

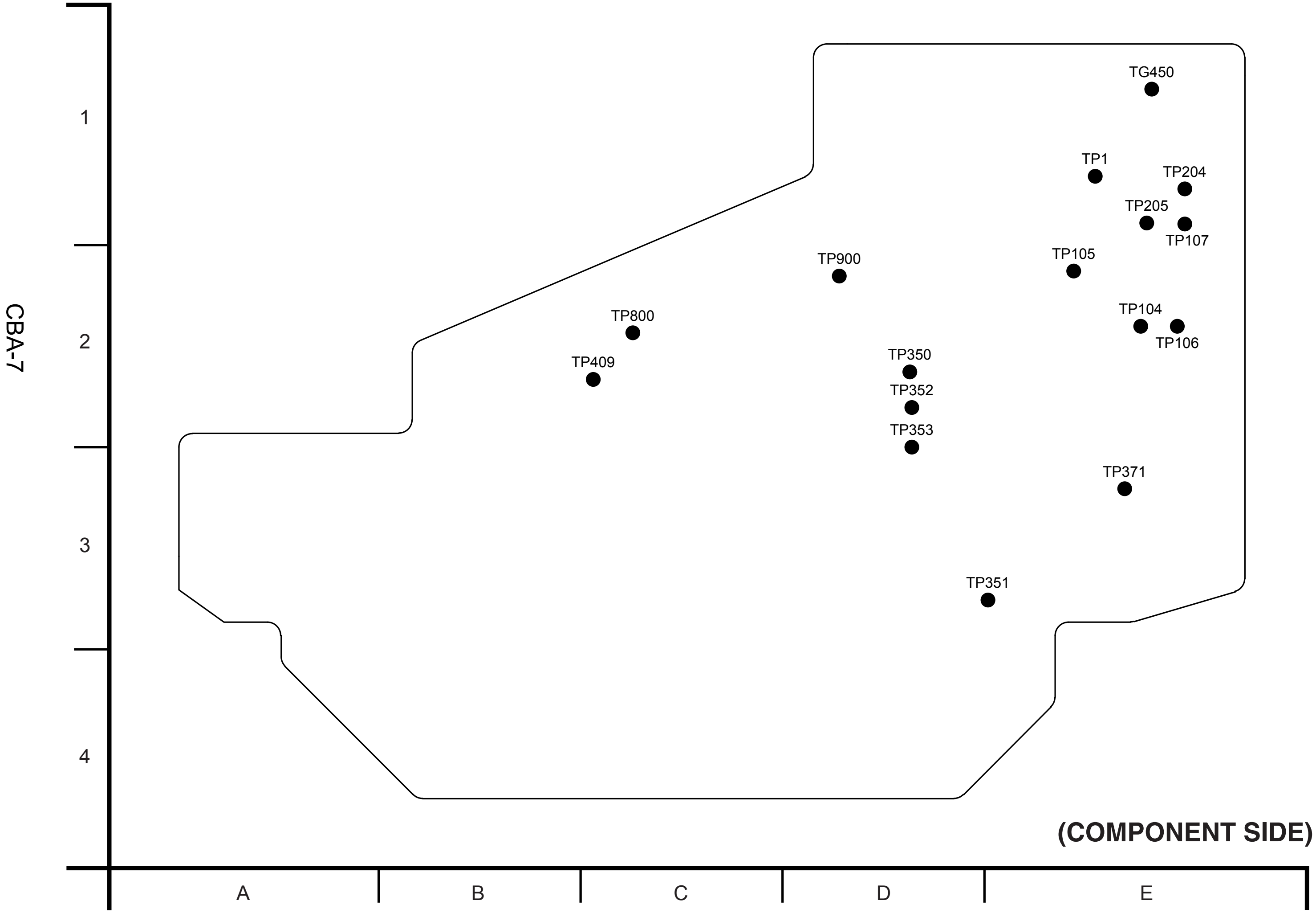
RF/CUE P.C.BOARD (VEP85215)



(FOIL SIDE)

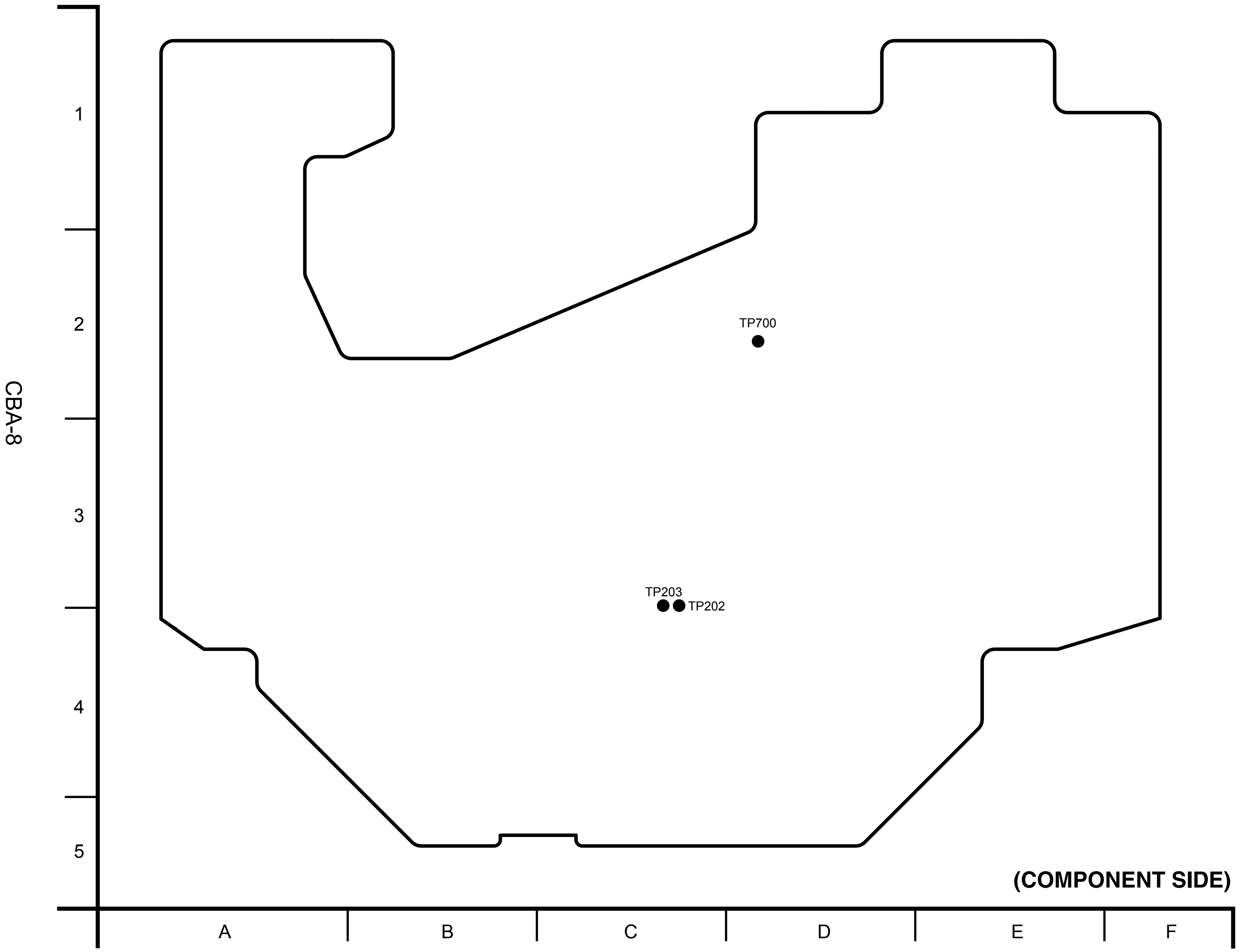
REF	LOC	REF	LOC
IC101	A2	Q322	A3
IC251	A2	Q324	A2
IC601	D2	Q325	B2
IC602	D2	Q329	B2
IC4001	E2	Q333	B3
IC4105	E3	Q335	B3
IC4107	E3	Q337	A3
IC4206	F3	Q403	B4
IC4209	F3	Q405	A4
IC4301	D3	Q435	C2
IC4302	E3	Q463	B1
IC4303	E2	Q465	A1
IC4309	E2	Q503	B3
IC4310	D2	Q505	A3
		Q535	C2
		Q4001	F2
Q101	A1	Q4002	F2
Q102	A1	Q4003	F2
Q103	C1	Q4004	F2
Q104	A1	Q4005	F2
Q105	B1	Q4006	F2
Q109	B1	Q4007	E2
Q113	B1	Q4008	E2
Q115	B1	Q4009	E2
Q117	A1	Q4010	E2
Q171	A2	Q4011	F1
Q172	A2	Q4012	F1
Q173	C1	QR4001	F2
Q174	A2	QR4002	F2
Q175	B2	QR4003	E2
Q179	B2	QR4004	E2
Q183	B2	QR4005	E2
Q185	B2	QR4006	F1
Q187	A2	QR4007	F1
Q251	A2		
Q252	A2		
Q254	A2	VR4301	E1
Q255	B2	VR4302	E1
Q259	B2	VR4303	E1
Q263	B2	VR4304	D1
Q265	B2	VR4305	E1
Q267	A2	VR4306	E1
Q321	A2		

SERVO P.C.BOARD (VEP82249)


TG450
TP1
TP204
TP205
TP107
TP900
TP105
TP800
TP104
TP106
TP409
TP350
TP352
TP353
TP371
TP351
CBA-7
1
2
3
4
A
B
C
D
E
(COMPONENT SIDE)

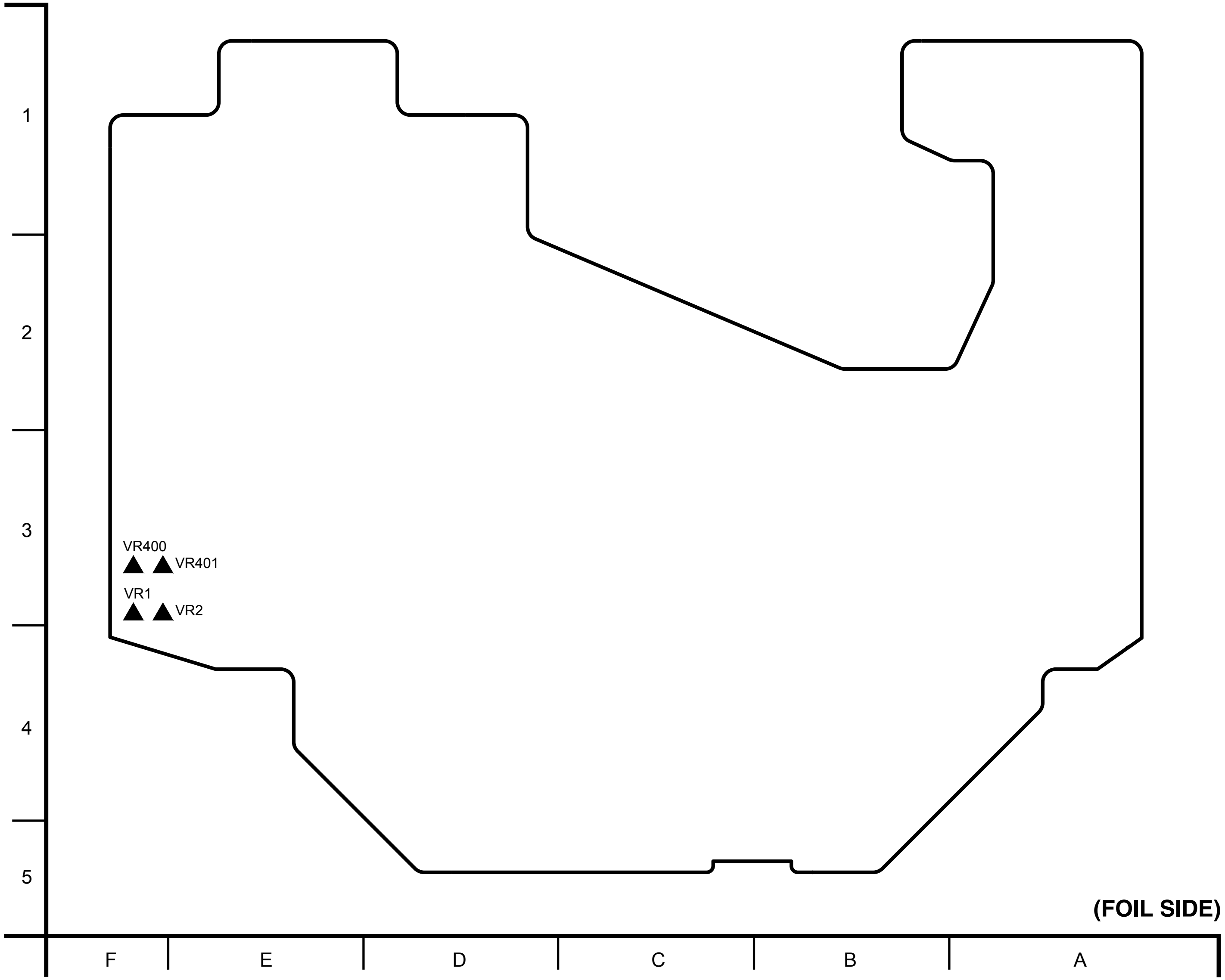
REF	LOC	REF	LOC
IC300	C1	QR400	A2
IC301	C1	QR401	A2
IC302	C2	QR402	A2
IC350	E2	QR700	D3
IC400	E3	QR701	D2
IC700	B3	QR702	D3
IC701	B3	QR703	D2
IC900	E2	QR800	B3
IC5001	E4	QR801	B3
IC5002	D4	QR802	B3
		QR803	D2
		QR804	C3
P300	C2	QR805	C2
P350	C1	QR806	C2
P900	E1	QR807	C2
P901	E2	QR808	C3
P902	A3	QR809	C3
		QR810	C2
		QR811	B3
Q450	A1	QR812	B3
Q451	A1	QR813	B3
Q700	B2	QR814	B3
Q701	B2	QR815	B4
Q702	E3	QR816	B3
Q703	E3	QR5001	E4
Q704	E3	QR5002	D4
Q705	E3	QR6001	C4
Q706	E3	QR6002	C4
Q707	E3		
Q800	B4		
Q801	B4	TG450	E1
Q802	B4	TP1	E1
Q5001	E4	TP104	E2
Q5002	D4	TP105	E2
Q5003	A3	TP106	E2
Q5004	E4	TP107	E1
Q5005	E4	TP204	E1
Q5006	D4	TP205	E1
Q6001	C4	TP350	D2
Q6002	C4	TP351	E3
QR1	C1	TP352	D2
QR2	B1	TP353	D2
QR3	D1	TP371	E3
QR4	D1	TP409	C2
QR9	B1	TP800	C2
		TP801	C2
		TP900	D2

MECHA IF P.C.BOARD (VEP82250)



REF	LOC	REF	LOC
IC3	C3	Q1	C3
IC5	C3	Q100	E3
IC7	C3	Q101	A3
IC14	B2	Q102	E3
IC15	B3	Q300	E3
IC18	B3	Q301	D2
IC19	B3	Q500	D4
IC300	E3	Q501	B4
IC301	E3	Q502	D4
IC302	B3	Q703	D2
IC303	B3	Q704	D2
IC304	B3	Q705	D2
IC305	D3	QR100	E3
		QR101	E3
		QR102	A3
P300	C4	QR103	A3
P400	C5	QR104	E3
P401	C5	QR105	A3
P402	D2	QR106	A1
P403	F1	QR107	A1
P404	A1	QR108	A1
P405	A2	QR109	B1
P406	A3	QR110	A1
P407	E2	QR111	B1
P408	A3	QR400	E1
P409	E3	QR401	D1
P410	F3	QR700	D2
P411	C5	QR701	D2
P412	E1	QR702	D2
P413	A1	QR703	D2
P414	D1		
P415	D4		
P416	B4	TP202	C3
P417	E1	TP203	C3
P418	F2	TP700	D2
P419	C2		
P420	A2		
P421	A1		
P422	F2		
P423	A2		

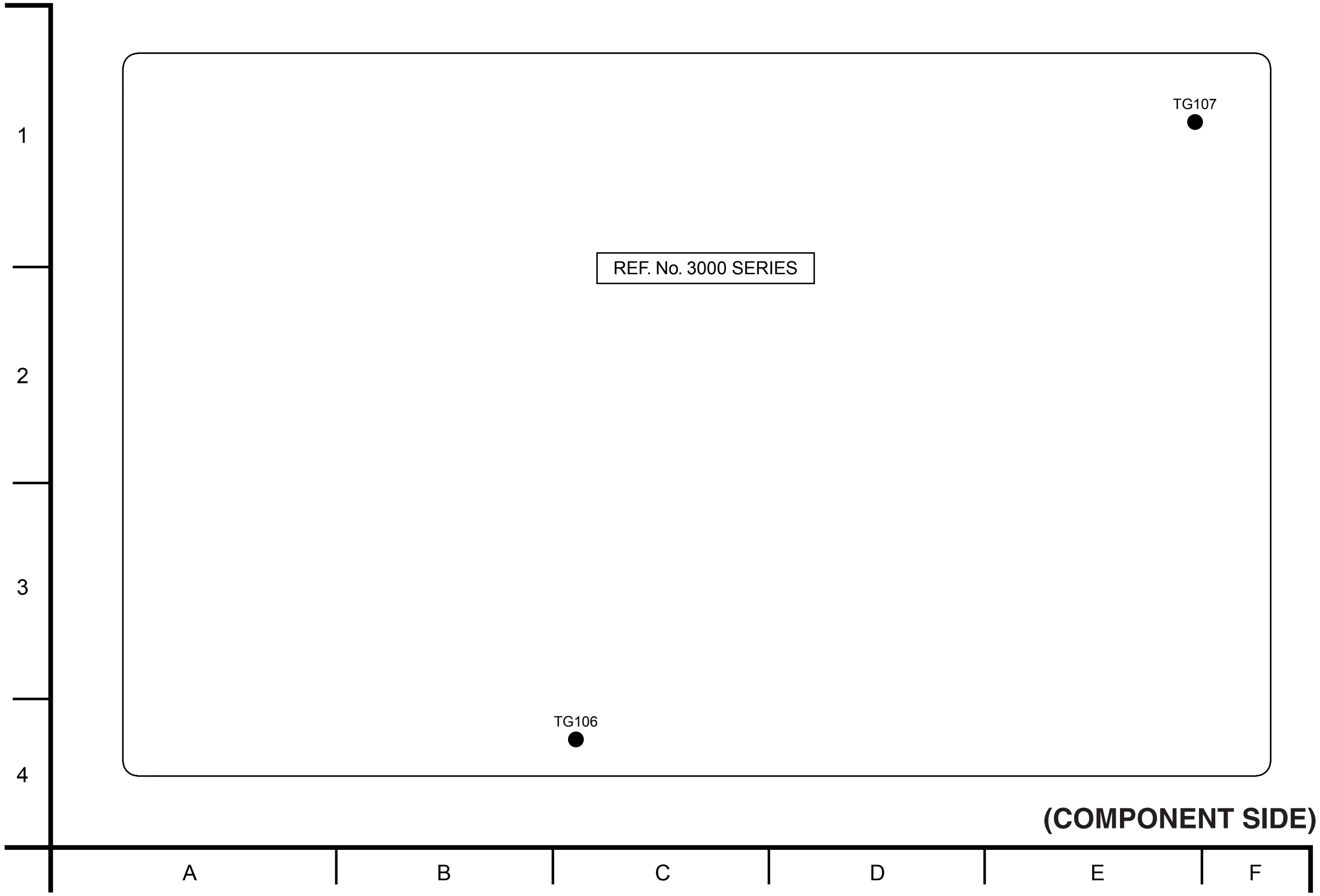
MECHA IF P.C.BOARD (VEP82250)



(FOIL SIDE)

REF	LOC
IC2	C3
IC4	C3
IC6	C3
IC8	B3
IC306	B3
IC307	B3
IC400	E1
IC401	E1
IC500	C4
IC501	C4
IC502	D4
IC503	C4
IC703	D2
IC2254	B3
Q103	A2
Q104	A2
Q105	A1
Q106	A1
Q107	A1
Q400	D1
Q401	D1
Q503	B4
Q504	D4
Q505	B4
Q700	D2
Q701	D1
Q702	D2
QR500	C4
QR501	C4
QR502	C4
QR503	C5
VR1	F3
VR2	F3
VR400	F3
VR401	F3

UDC P.C.BOARD (VEP83573) [F4]

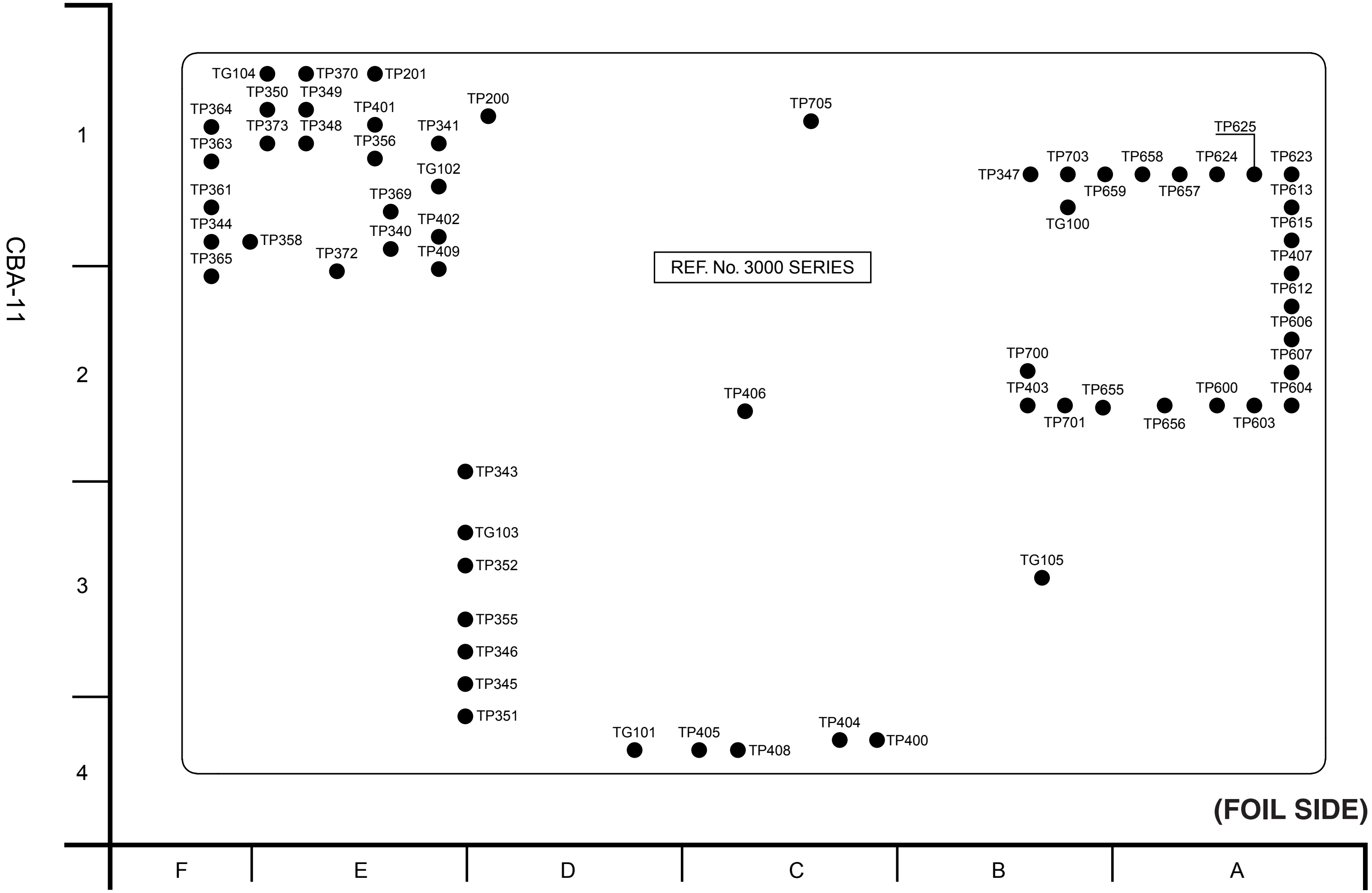

TG107
REF. No. 3000 SERIES
TG106
1
2
3
4
A
B
C
D
E
F

(COMPONENT SIDE)

CBA-10

REF	LOC
IC100	A1
IC101	E2
IC205	B1
IC206	D2
IC208	B2
IC210	C1
IC211	D1
IC212	C2
IC213	D2
IC214	D1
IC215	D2
IC216	D2
IC217	C2
IC218	B2
IC219	B2
IC340	E3
IC401	D4
IC500	B3
IC501	B3
IC502	D3
IC503	D3
IC600	A2
IC700	B2
IC701	E1
IC709	F2
IP700	E1
IP701	E1
IP702	F1
P100	C1
P700	E1
P701	E4
TG106	C4
TG107	E1

UDC P.C.BOARD (VEP83573) [F4]

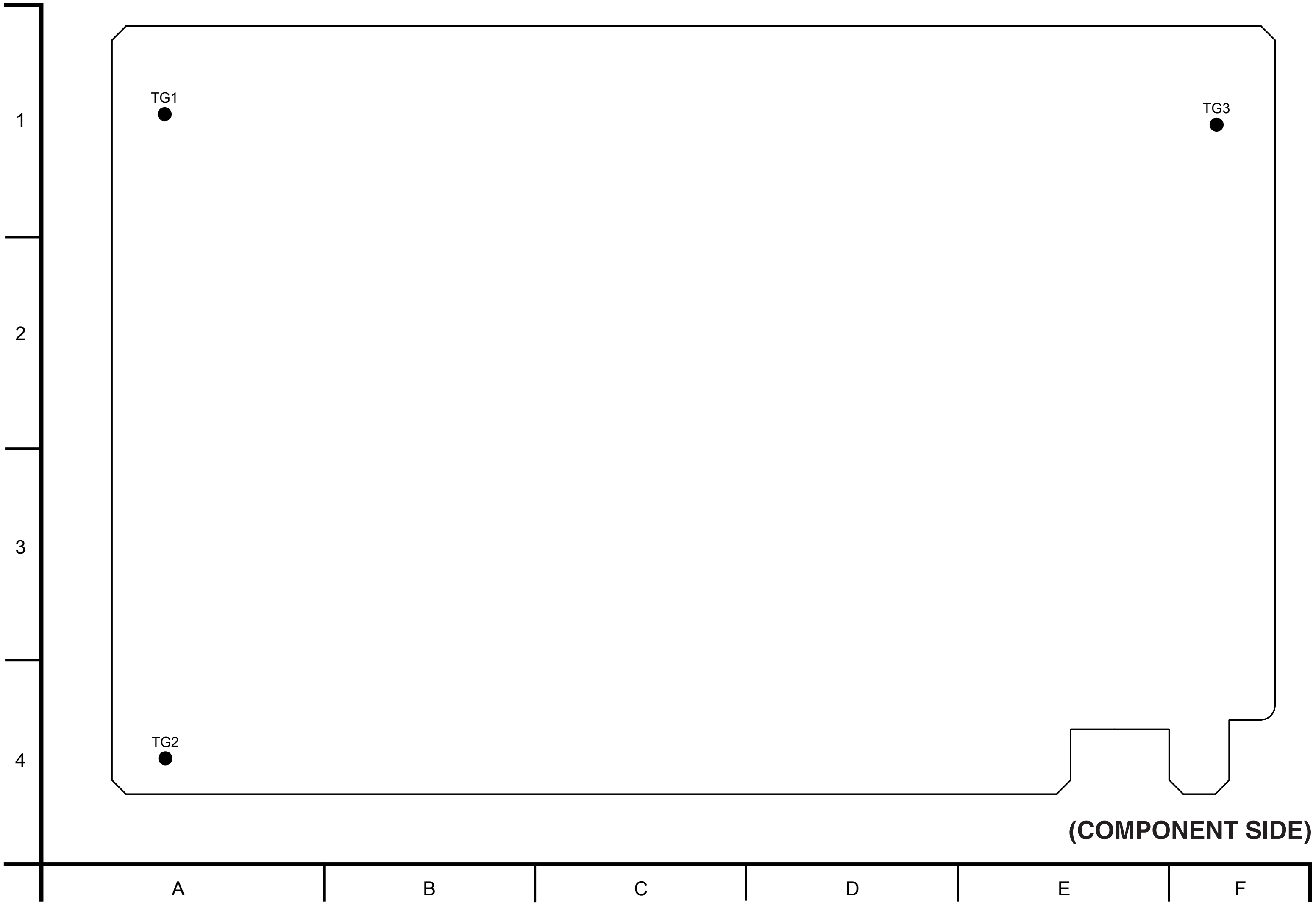

CBA-11
1
2
3
4
F
E
D
C
B
A
TG104
TP370
TP201
TP350
TP349
TP364
TP373
TP348
TP401
TP356
TP341
TP200
TP363
TG102
TP361
TP369
TP344
TP358
TP402
TP340
TP365
TP372
TP409
TP705
REF. No. 3000 SERIES
TP625
TP347
TP703
TP658
TP624
TP623
TP659
TP657
TP613
TG100
TP615
TP407
TP612
TP606
TP700
TP607
TP403
TP655
TP600
TP604
TP701
TP656
TP603
TP406
TP343
TG103
TP352
TP355
TP346
TP345
TP351
TG105
TG101
TP405
TP408
TP404
TP400

(FOIL SIDE)

REF	LOC	REF	LOC
IC102	B1	TP349	E1
IC200	D1	TP350	E1
IC201	D1	TP351	E4
IC202	D2	TP352	E3
IC203	D2	TP355	E3
IC204	D2	TP356	E1
IC207	D2	TP358	F1
IC209	C2	TP361	F1
IC341	E2	TP363	F1
IC342	E2	TP364	F1
IC400	C3	TP365	F2
IC504	B3	TP369	E1
IC505	B3	TP370	E1
IC506	D3	TP372	E2
IC507	D3	TP373	E1
IC508	A3	TP400	C4
IC509	A3	TP401	E1
IC510	E3	TP402	E1
IC511	E3	TP403	B2
IC512	A3	TP404	C4
IC513	A3	TP405	C4
IC514	E3	TP406	C2
IC515	E3	TP407	A2
IC702	B2	TP408	C4
IC703	B2	TP409	E2
IC704	C1	TP600	A2
IC705	C2	TP603	A2
IC706	B1	TP604	A2
		TP606	A2
		TP607	A2
TG100	B1	TP612	A2
TG101	D4	TP613	A1
TG102	E1	TP615	A1
TG103	E3	TP623	A1
TG104	E1	TP624	A1
TG105	B3	TP625	A1
TP200	D1	TP654	A2
TP201	E1	TP655	B2
TP340	E1	TP657	A1
TP341	E1	TP658	A1
TP343	E2	TP659	B1
TP344	F1	TP700	B2
TP345	E3	TP701	B2
TP346	E3	TP703	B1
TP347	B1	TP705	C1
TP348	E1		

SGNE SDI P.C.BOARD (VEP83634) [F5]

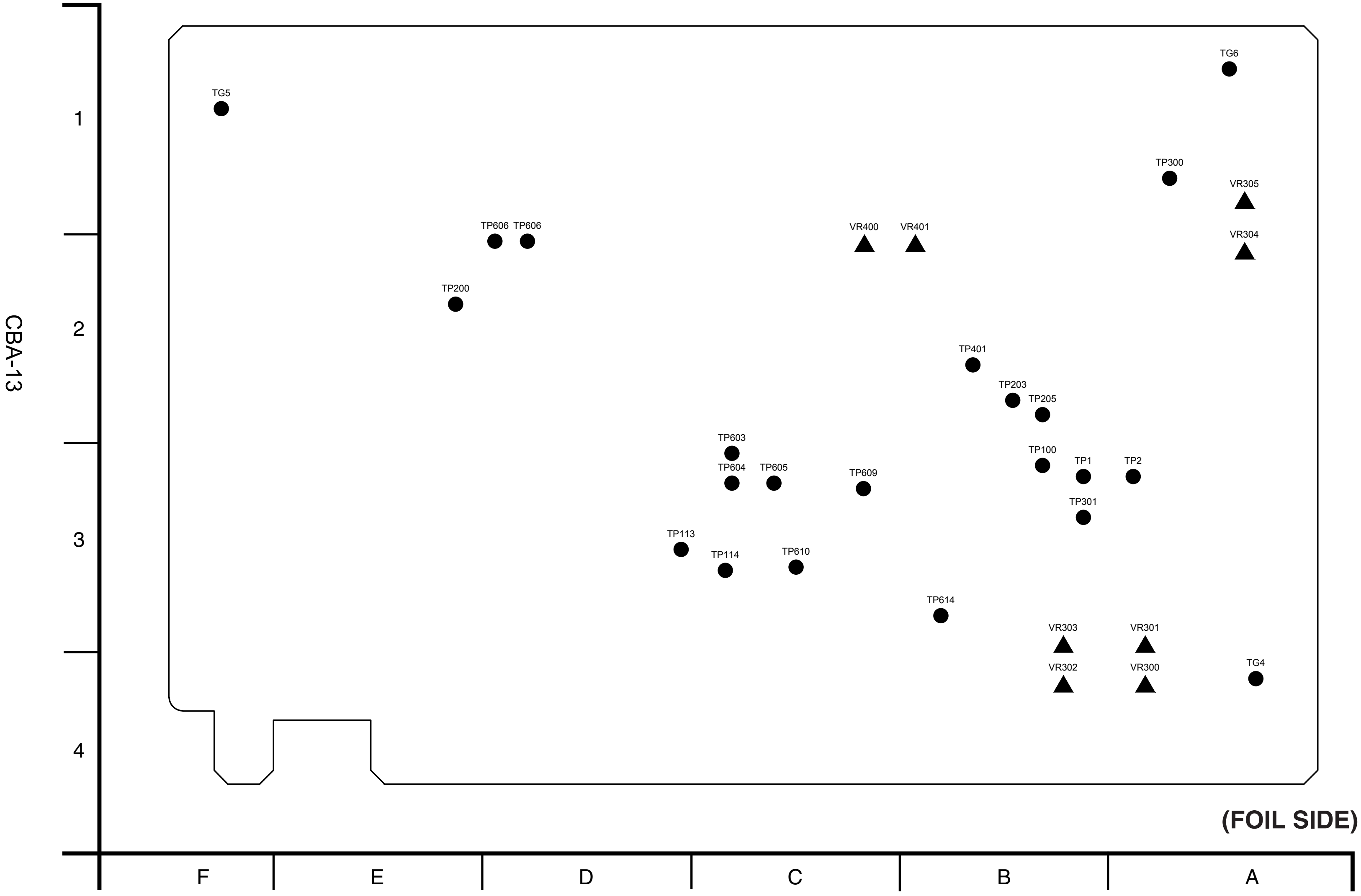
CBA-12



(COMPONENT SIDE)

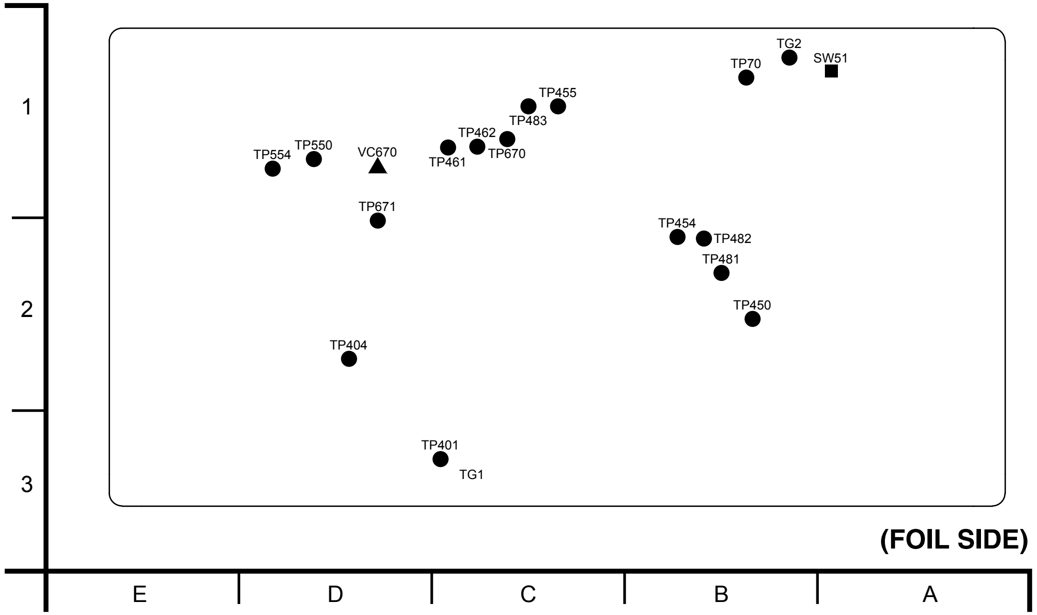
REF	LOC	REF	LOC
IC2	E3	IC411	B2
IC3	E3	IC500	E3
IC6	F3	IC502	E2
IC7	F3	IC508	E2
IC102	D3	IC600	C3
IC104	D3	IC601	D4
IC105	D3	IC602	D3
IC106	C3	IC603	D3
IC107	D3	IC604	C3
IC108	D3	IC605	D3
IC109	D3	IC606	D2
IC112	D3	IC609	D2
IC114	D3	IC610	D2
IC116	D3	IC613	D2
IC200	B2	IC614	B3
IC300	B3	IC620	C3
IC301	A4	IC623	B3
IC302	B4	IC624	B3
IC303	B3	IC625	C3
IC304	A3	IC700	E2
IC305	B2	IC701	E1
IC306	A3		
IC307	B3		
IC308	A3	P1	C4
IC309	A2	P2	E3
IC310	A3	P3	E1
IC311	A1	P600	D1
IC320	A2	P700	B1
IC338	B3		
IC339	B3		
IC400	C2	Q100	D3
IC401	C2	Q101	D3
IC403	B2	Q102	E3
IC405	C2	Q103	E3
IC406	B2		
IC407	C1		
IC408	B1	TG1	A1
IC409	B2	TG2	A4
IC410	C2	TG3	F1

SGEN SDI P.C.BOARD (VEP83634) [F5]


TG6
TG5
TP300
VR305
TP606
TP606
VR400
VR401
VR304
TP200
TP401
TP203
TP205
TP603
TP604
TP605
TP609
TP100
TP1
TP2
TP301
TP113
TP114
TP610
TP614
VR303
VR301
VR302
VR300
TG4
CBA-13
1
2
3
4
(FOIL SIDE)
F
E
D
C
B
A

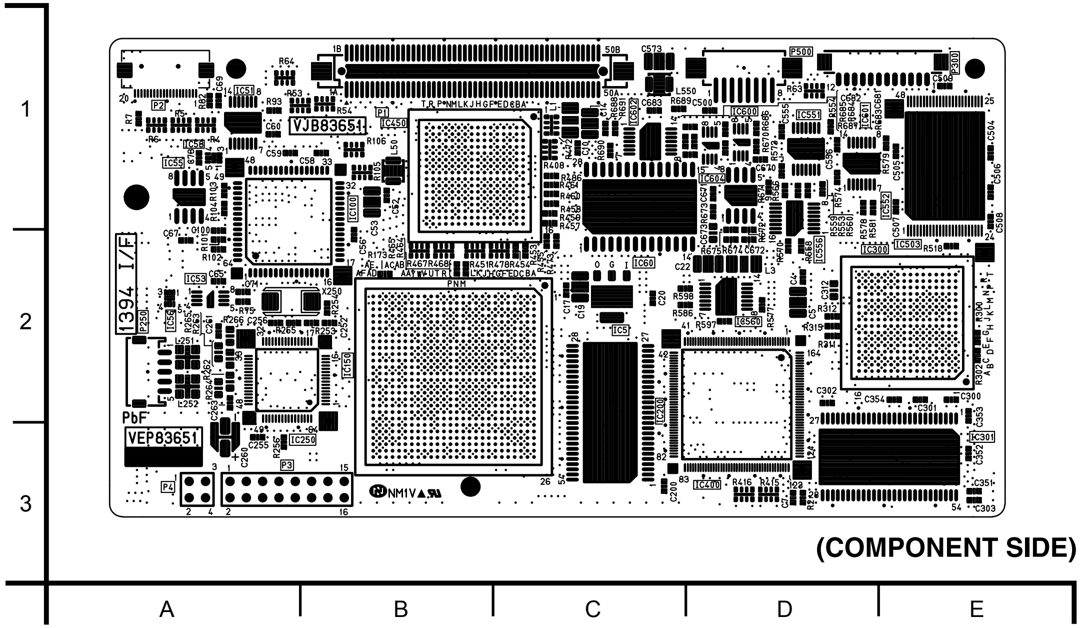
REF	LOC	REF	LOC
IC5	D1	TP100	B3
IC8	D1	TP113	D3
IC100	E3	TP114	C3
IC101	D4	TP200	E2
IC103	D3	TP203	B2
IC119	D3	TP205	B2
IC201	A2	TP300	A1
IC312	A2	TP301	B3
IC314	B1	TP401	B2
IC316	A2	TP603	C3
IC340	B3	TP604	C3
IC503	E2	TP605	C3
IC504	E3	TP606	D2
IC506	F2	TP607	D2
IC509	F1	TP609	C3
IC510	F2	TP610	C3
IC615	C4	TP614	B3
IC618	C4		
IC619	C4		
IC622	B4	VR300	A4
		VR301	A3
		VR302	B4
TG4	A4	VR303	B3
TG5	F1	VR304	A2
TG6	A1	VR305	A1
TP1	B3	VR400	C2
TP2	A3	VR401	B2

1394 IF P.C.BOARD (VEP83651) [F3]


1
2
3
TG2
SW51
TP70
TP455
TP483
TP462
TP461
TP670
TP554
TP550
VC670
TP671
TP454
TP482
TP481
TP450
TP404
TP401
TG1
E
D
C
B
A

(FOIL SIDE)

REF	LOC	REF	LOC	REF	LOC
IC1	D2	Q671	D1	TP454	B2
IC2	D3	QR1	D3	TP455	C1
IC3	D2	QR50	C1	TP461	C1
IC4	C2	QR51	D1	TP462	C1
IC6	D2	QR52	D1	TP481	B2
IC50	A1	QR53	D1	TP482	B2
IC350	E3	QR54	C1	TP483	C1
IC500	D1	QR500	D1	TP550	D1
IC502	E1			TP554	D1
IC557	C2			TP670	C1
IC561	C2	SW51	A1	TP671	D2
IC562	C2				
		TG1	C3	VC670	D1
P50	A1	TG2	B1		
		TP70	B1		
		TP401	C3		
Q1	D3	TP404	D2		
Q670	C1	TP450	B2		


1
2
3
VJB83651
1394 I/F
PbF
VEP83651
A
B
C
D
E

(COMPONENT SIDE)

REF	LOC	REF	LOC
IC5	C2	IC551	D1
IC51	A1	IC552	D1
IC53	A2	IC556	D1
IC55	A1	IC560	D2
IC56	A2	IC600	D1
IC58	A1	IC601	D1
IC60	C1	IC602	C1
IC100	A1	IC604	D1
IC150	B2		
IC200	C2		
IC250	A2	P1	B1
IC300	E2	P2	A1
IC301	E3	P3	A3
IC400	D2	P4	A3
IC450	B1	P250	A2
IC503	E1	P500	D1

RF/EQ P.C.BOARD (VEP85214)

Foil Side

REF	LOC	REF	LOC
IC1	E2	Q502	A1
IC201	D3	Q503	A1
IC202	D4	Q504	B1
IC204	D4	Q505	B1
IC303	A3	Q506	B1
IC403	C3	Q551	C1
IC802	A3	Q552	C1
IC803	B2	Q553	C1
IC804	D3	Q554	C1
IC902	C3	Q555	C1
IC1002	B2	Q556	C1
IC1003	B2	Q601	D1
IC1102	C2	Q602	D1
IC1202	D2	Q603	D1
IC1203	E2	Q604	E1
		Q605	E1
		Q606	D1
Q1	E2	Q701	C3
Q2	E2	Q703	D3
Q3	E2	Q731	B2
Q203	D3	Q733	B2
Q204	D3	Q761	D1
Q205	D3	Q763	C2
Q206	D3	Q801	B3
Q301	B4	Q901	C3
Q302	B4	Q1001	B2
Q303	B3	Q1101	C2
Q304	B4	Q1201	D2
Q305	A4	Q1301	E3
Q351	A3	Q1302	E3
Q401	C3	Q1303	E3
Q402	C4	Q1304	F3
Q403	C3	Q1305	F3
Q404	C4	Q1306	E3
Q405	C4	Q1307	E3
Q451	B3	QR351	A3
Q501	A1	QR352	A3

APROC P.C.BOARD (VEP84393)

Foil Side

REF	LOC	REF	LOC	REF	LOC
IC4003	B1	IC4243	D3	Q4803	C2
IC4006	B1	IC4244	C3	Q4804	C3
IC4008	B3	IC4245	C3	Q4805	C2
IC4057	B2	IC4401	F2	Q4806	C3
IC4060	B2	IC4402	E2	QR4201	D2
IC4061	B2	IC4403	E2	QR4202	D2
IC4105	A3	IC4404	E2	QR4203	C2
IC4106	B3	IC4412	D2	QR4204	C2
IC4114	B3	IC4413	D2	QR4205	D2
IC4115	C3	IC4414	D2	QR4206	D2
IC4116	B4	IC4415	C2	QR4207	C2
IC4151	A2	IC4420	D2	QR4208	C2
IC4152	A2	IC4421	D2		
IC4155	A2	IC4422	D2		
IC4156	B4	IC4423	C2		
IC4158	A2	IC4632	C1		
IC4160	A1	IC4633	C1		
IC4161	A4	IC4636	E4		
IC4162	A4	IC4637	E4		
IC4164	A1	IC4640	D4		
IC4166	A2	IC4641	D4		
IC4174	A4	IC4644	D4		
IC4175	A4	IC4645	D4		
IC4209	F4	IC4801	C1		
IC4210	E4	IC4806	C2		
IC4211	F3	IC4807	C2		
IC4212	E3				
IC4213	E3				
IC4214	E3	Q4201	D2		
IC4219	E4	Q4202	D2		
IC4220	E4	Q4203	C2		
IC4229	F2	Q4204	C2		
IC4230	E2	Q4601	C4		
IC4231	E2	Q4602	C3		
IC4232	E2	Q4603	C4		
IC4233	E4	Q4801	C3		
IC4242	D3	Q4802	C3		

REC PB P.C.BOARD (VEP83624)

Foil Side

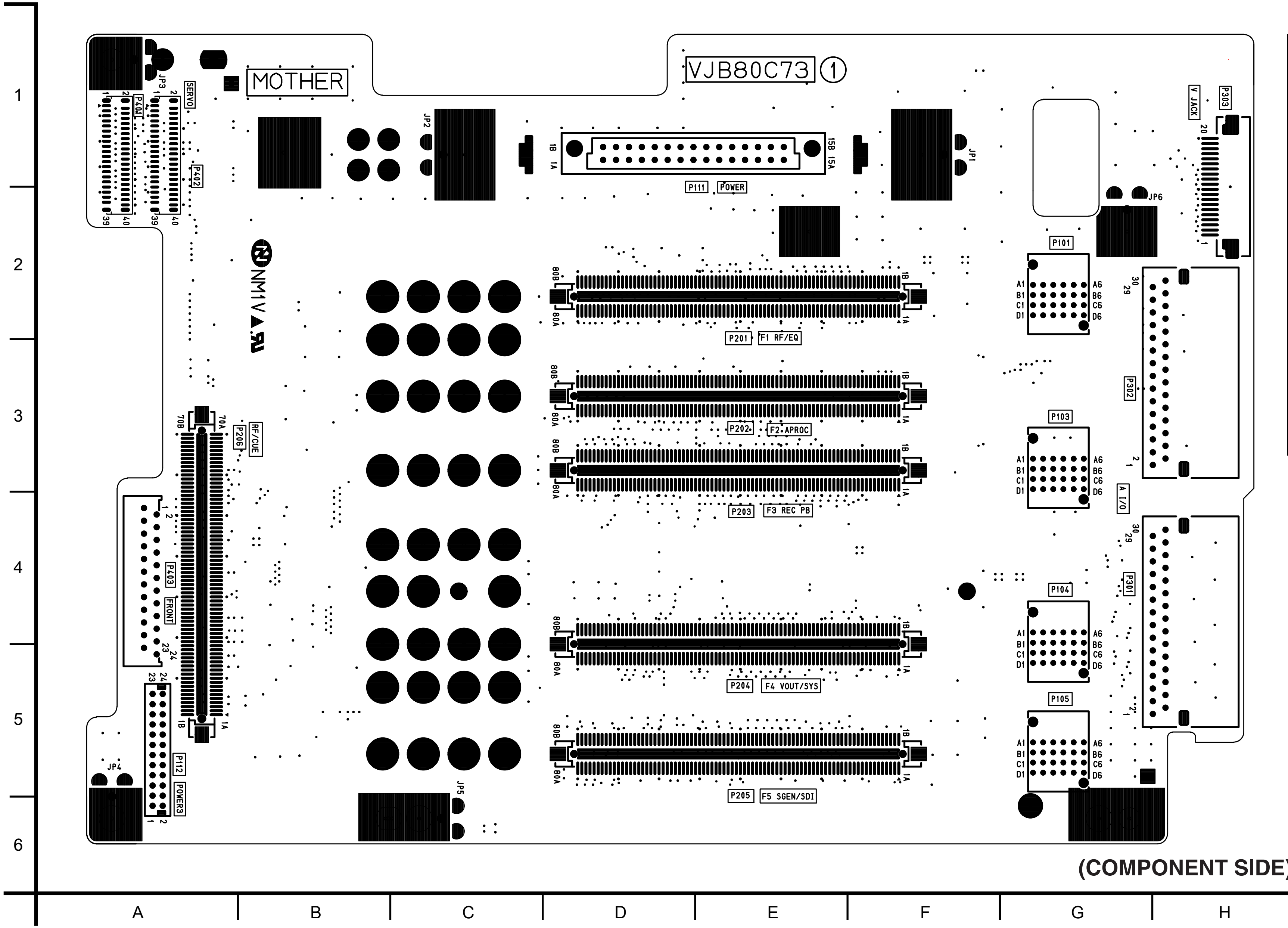
REF	LOC
IC5	E4
IC50	C2
IC51	B2
IC52	B2
IC101	C1
IC102	C1
IC151	B1
IC152	A1
IC153	A3
IC154	A4
IC155	A3
IC156	A4
IC200	A2
IC201	B3
IC202	A3
IC252	B1
IC253	B1
IC254	B1
IC371	F2
IC550	C4
IC551	A4
IC552	C3
IC553	C4
IC554	C4
IC555	C4
IC557	E3
IC562	B4
IC652	D1
P650	D1
QR650	D1

SERVO P.C.BOARD (VEP82249)

Foil Side

REF	LOC	REF	LOC
IC1	D1	Q800	D4
IC20	E1	Q801	D4
IC23	D2	Q802	D4
IC24	C3	Q5001	B4
IC26	C2	Q5002	B4
IC27	C3	Q5004	B4
IC28	E3	Q5005	A4
IC29	E2	Q5006	B4
IC38	B4	QR1	D1
IC41	D4	QR2	D1
IC42	D4	QR9	E1
IC46	E3	QR400	F2
IC47	D2	QR401	F2
IC48	D2	QR402	F2
IC49	D2	QR700	C3
IC50	D2	QR701	C2
IC51	D2	QR702	C3
IC52	E4	QR703	C2
IC53	D3	QR800	D3
IC54	C2	QR801	D3
IC300	D1	QR802	D3
IC301	D1	QR804	C3
IC351	E3	QR805	C2
IC5001	B4	QR806	D2
IC5002	B4	QR807	C2
IC6001	C4	QR808	C3
		QR809	D3
		QR810	C2
P903	C3	QR811	D3
		QR812	D3
		QR813	E3
Q450	F1	QR814	E3
Q451	F1	QR815	D4
Q702	B3	QR816	D3
Q703	A3	QR5001	B4
Q704	B3	QR5002	B4
Q705	A3	QR6001	D4
Q706	B3	QR6002	D4
Q707	A3		

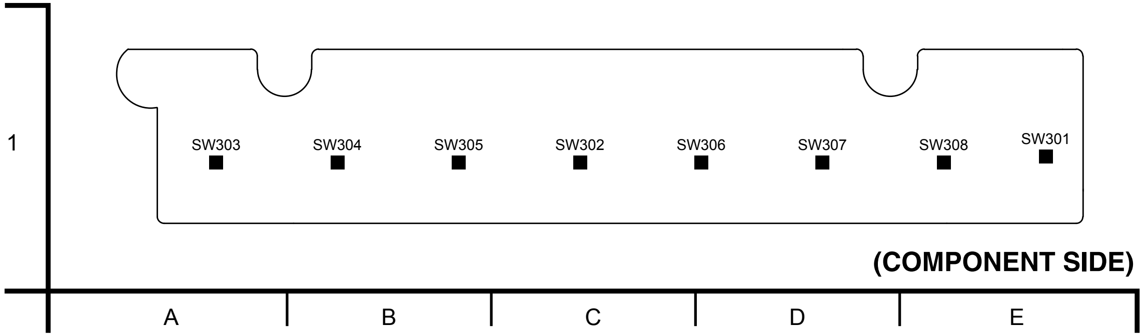
MOTHER P.C.BOARD (VEP80C73)


MOTHER
VJB80C73 ①
SERVO
P401
P402
JP3
JP2
JP1
P111
POWER
V JACK
P303
JP6
P101
NM1V
P201
F1 RF/EQ
P202
F2 APROC
P203
F3 REC PB
P204
F4 VOUT/SYS
P205
F5 SGEN/SDI
P302
P103
A I/O
P301
P104
P105
P206
RF/CUE
P403
FRONT
P112
POWER3
JP4
JP5
1
2
3
4
5
6
A
B
C
D
E
F
G
H

(COMPONENT SIDE)

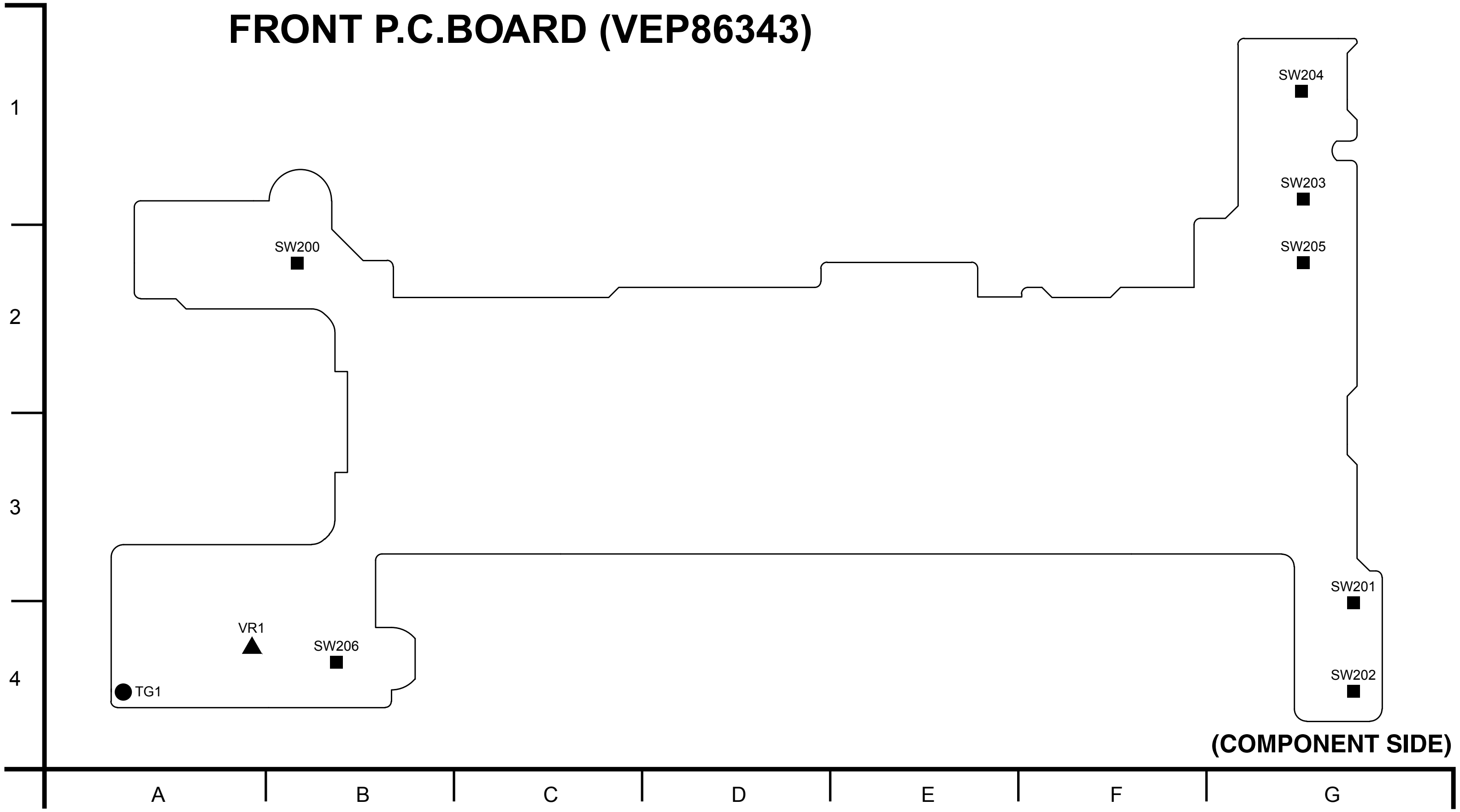
REF	LOC
P101	G2
P103	G3
P104	G5
P105	G5
P111	D1
P112	A6
P201	E2
P202	E3
P203	E3
P204	E5
P205	E5
P206	A4
P301	H5
P302	H3
P303	H2
P401	A1
P402	A1
P403	A4

FRONT KEY P.C.BOARD (VEP86344)


1
SW303
SW304
SW305
SW302
SW306
SW307
SW308
SW301
(COMPONENT SIDE)
A
B
C
D
E

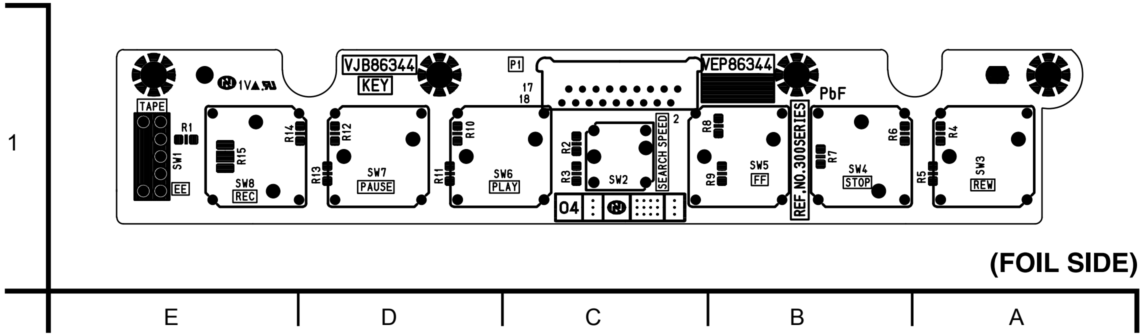
REF	LOC
SW301	E1
SW302	C1
SW303	A1
SW304	B1
SW305	B1
SW306	C1
SW307	D1
SW308	E1

FRONT P.C.BOARD (VEP86343)


1
2
3
4
SW204
SW203
SW205
SW200
SW201
SW202
VR1
SW206
TG1
(COMPONENT SIDE)
A
B
C
D
E
F
G

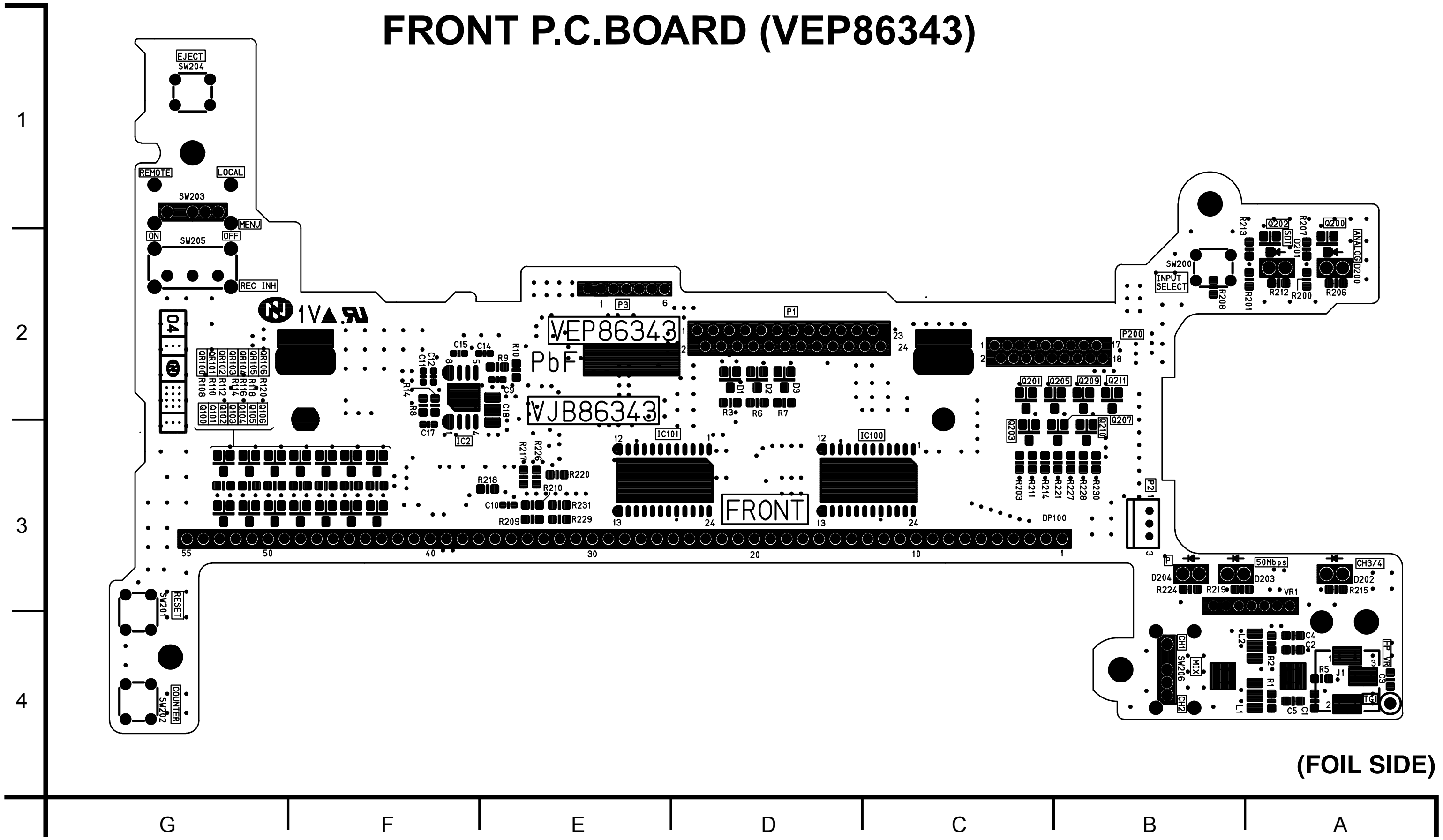
REF	LOC
IC1	E3
IC3	E2
P1	D2
P3	E2
P200	C2
Q204	A3
Q206	B3
Q208	B3
SW200	B2
SW201	G4
SW202	G4
SW203	G1
SW204	G1
SW205	G2
SW206	B4
VR1	A4

FRONT KEY P.C.BOARD (VEP86344)


VJB86344
KEY
P1
VEP86344
PbF
TAPE
SW1
EE
R1
R15
R14
SW8
REC
R12
R13
SW7
PAUSE
R10
R11
SW6
PLAY
R2
R3
SW2
SEARCH SPEED
R8
R9
SW5
FF
REF.NO.300SERIES
R7
SW4
STOP
R6
R5
R4
SW3
REW
04
1
E
D
C
B
A

(FOIL SIDE)

FRONT P.C.BOARD (VEP86343)


EJECT
SW204
REMOTE
LOCAL
SW203
MENU
ON
OFF
SW205
REC INH
04
1V
VEP86343
PbF
VJB86343
P3
P1
P200
IC2
IC101
IC100
FRONT
DP100
P2
SW200
INPUT SELECT
Q202
Q200
ANALOG
D201
D200
R213
R207
R208
R201
R212
R200
R206
Q201
Q205
Q209
Q211
Q203
Q210
Q207
D1
D2
D3
R3
R6
R7
R9
R10
C15
C14
C12
C11
C17
C18
R8
R218
R217
R226
R220
R210
R231
R209
R229
C10
R203
R211
R214
R221
R227
R228
R230
QR106
QR105
QR104
QR103
QR102
QR101
QR100
Q106
Q105
Q104
Q103
Q102
Q101
Q100
SW201
RESET
SW202
COUNTER
D204
R224
D203
R219
50Mbps
D202
R215
CH3/4
VR1
CH1
SW206
MIX
CH2
L2
C4
C3
R2
R1
L1
C5
C1
R5
J1
1
2
3
4
G
F
E
D
C
B
A

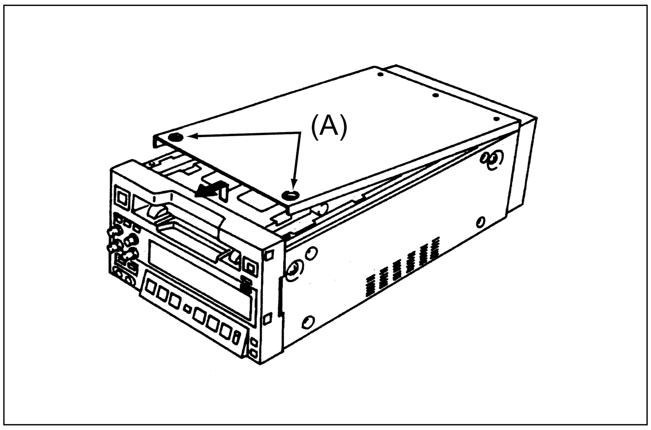
(FOIL SIDE)

REF	LOC
IC2	F2
IC100	C3
IC101	E3
P2	B3
Q100	G3
Q101	G3
Q102	G3
Q103	F3
Q104	F3
Q105	F3
Q106	F3
Q200	A2
Q201	C2
Q202	A2
Q203	C3
Q205	B2
Q207	B3
Q209	B2
Q210	B3
Q211	B2
QR100	G3
QR101	G3
QR102	G3
QR103	F3
QR104	F3
QR105	F3
QR106	F3

Disassembly Procedures

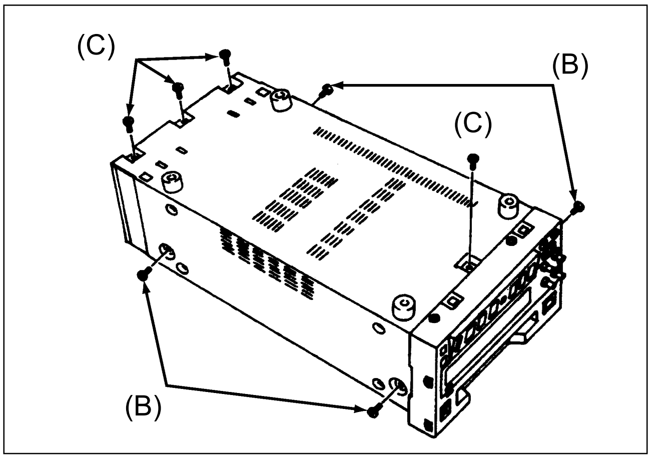
1-1. Removal of Top Panel

1. Unscrew the two screws (A).
2. Lift up the Top Plate slightly and remove it to the front.



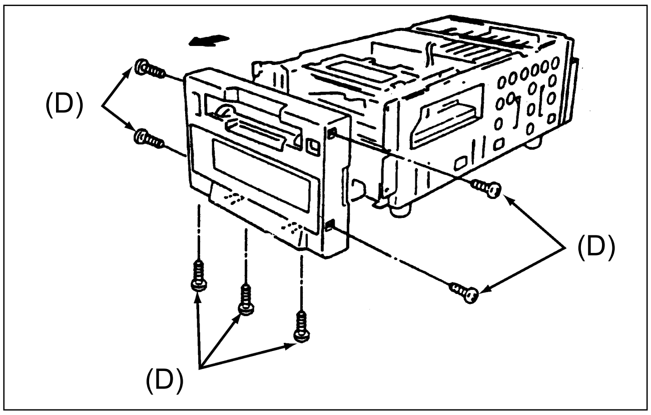
1-2. Removal of Bottom Panel

1. Unscrew the four screws (B).
2. Unscrew the four screws (C) and remove the Bottom Panel.

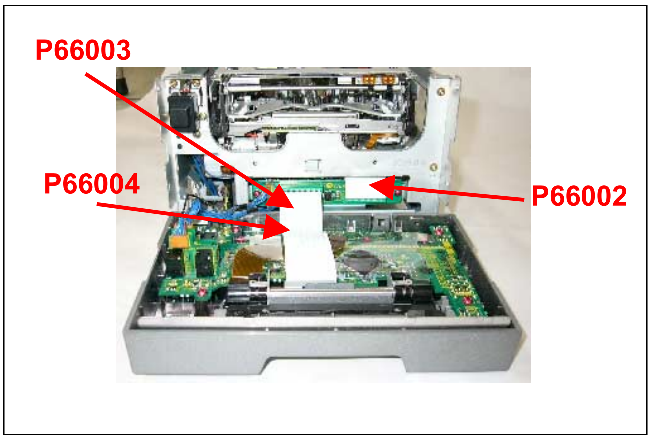


1-3. Removal of Front Panel

1. Unscrew the seven screws (D) and release the two lock claws.

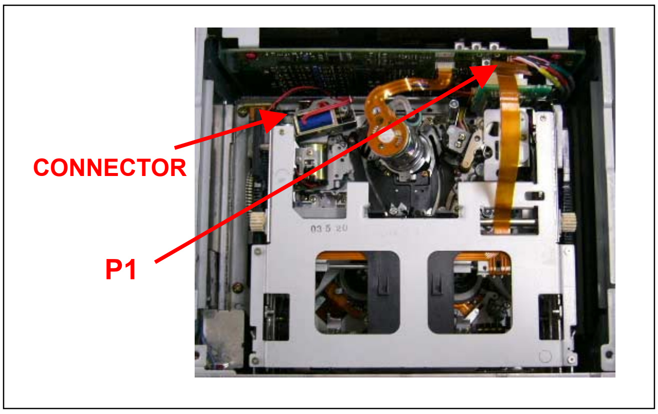


2. Open the Front Panel to the front.
3. Disconnect the three connectors (P66002, 66003, 66004) and remove the Front Panel.

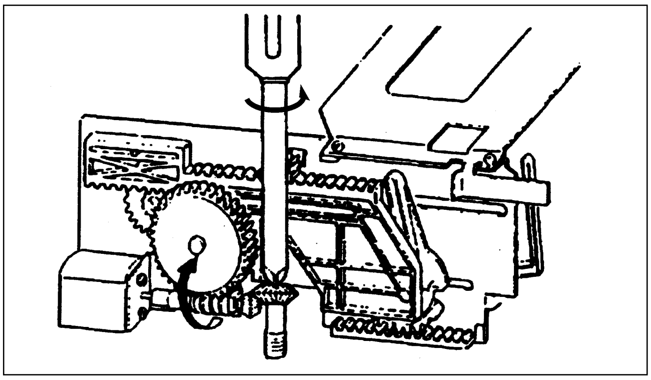


1-4. Removal of Front-loading Unit

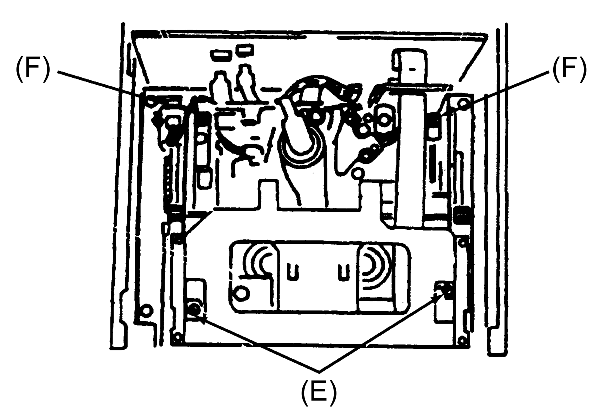
1. Disconnect the connector of the loading motor and the connector (P1).



2. Push the red plastic screw in front of the worm gear of the cassette-down motor with a screwdriver and turn it counterclockwise to move the cassette holder to the position where the two screws (E) can be seen as shown the next figure.

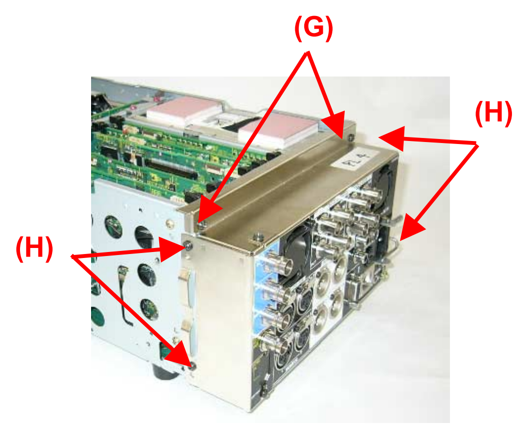


3. Unscrew the four screws (E) and (F), and then slowly lift up the Front Loading Unit.

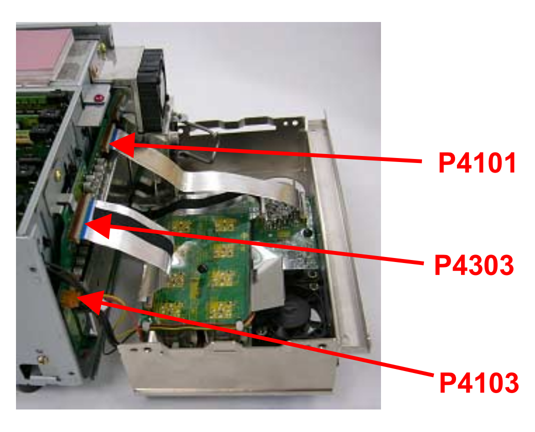


1-5. Removal of Rear Jack Panel

1. Unscrew the six screws (G) and (H).



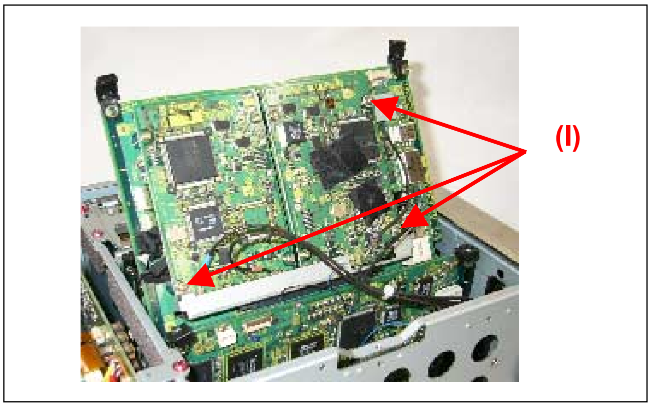
2. Disconnect the three connectors (P4101, 4130, 4303).


P4101
P4303
P4103

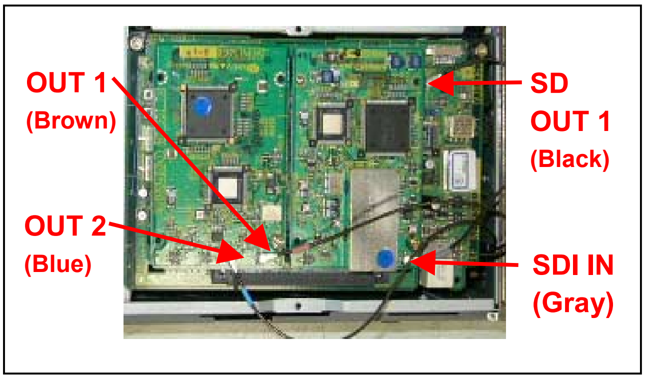
3. Remove the Rear Panel.

Note :
When the Optional Board AJ-YA120AG is installed, perform steps 4 to 5.

4. Temporally remove the SGEN_SDI Board and then unscrew the three screws (I), and remove the connector support angles.

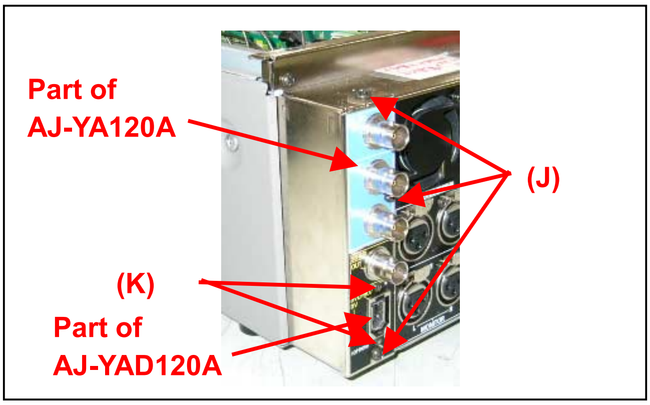


5. Disconnect the four connectors [SD OUT1 (Black), SDI IN (gray), OUT1 (Brown) and OUT2 (Blue)].


OUT 1
(Brown)
OUT 2
(Blue)
SD
OUT 1
(Black)
SDI IN
(Gray)

Note: When the Optional Board AJ-YA120AG or AJ-YAD120AG has been installed, perform step 6.

6. Unscrew the tree screws (J) and temporally remove the Connector Panel.

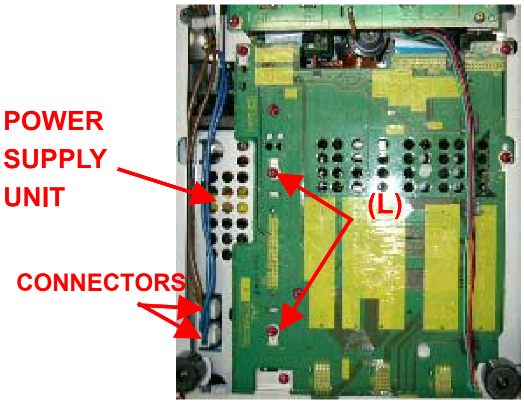

Part of
AJ-YA120A
(J)
(K)
Part of
AJ-YAD120A

7. Open the Rear Panel and remove the SDI cables, and Connector Panel of AJ-YA120AG.
8. Unscrew the two screws (K) and remove the IEEE1394 Connector Unit of AJ-YAD120AG from the Rear Panel.

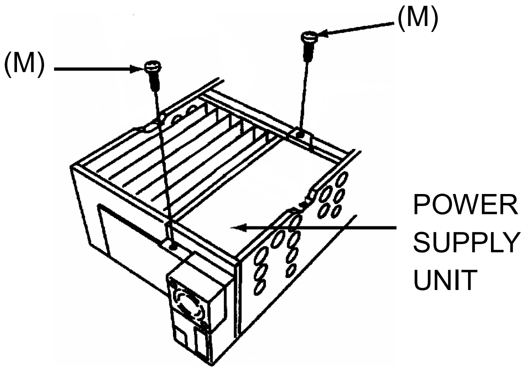
Note: 1. Pay attention not to damage the cable and wires.
2. Perform assembly by reversing the procedure.

1-6. Removal of Power Supply Unit

1. Disconnect the two connectors and unscrew the two screws (L).

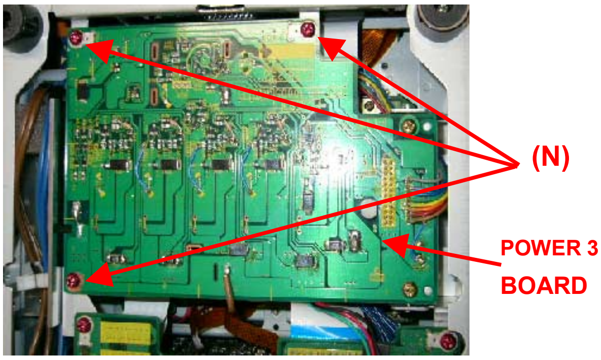

POWER
SUPPLY
UNIT
(L)
CONNECTORS

2. Unscrew the two screws (M) and lift up the Power Supply Unit to remove it.

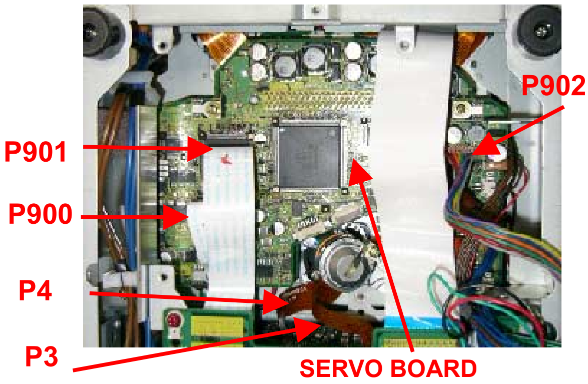

(M)
(M)
POWER
SUPPLY
UNIT

1-7. Removal of Mechanism Unit

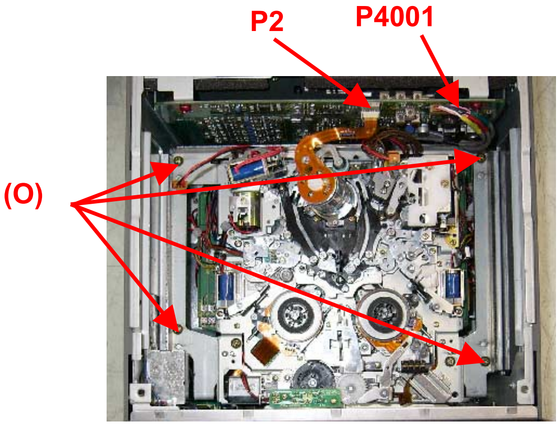
1. Unscrew the three screws (N) and open the Power 3 Circuit Board.


(N)
POWER 3
BOARD

2. Disconnect the five connectors (P901, P900, P902, P4 and P3) On the Servo Board.


P902
P901
P900
P4
P3
SERVO BOARD

3. Disconnect the two connectors (P2, and P4001), and remove the four screws (O).



4. Slowly lift up the Mechanical Chassis Unit.

Note: Perform assembly by reversing the procedure.

1. POWER Supply Unit

1-1. Output Voltage Adjustment

BOARD	POWER 3
TP	TP1, TP14 [GND] TP2, TP14 [GND]
ADJ.	VR2, VR3
TAPE	---
INPUT	EJECT
MODE	---
M. EQ	Digital Volt Meter
SPEC.	VR2 : 1.92V ± 0.05V VR3 : 1.40V ± 0.05V

1. Connect the Digital Volt Meter (+) to TP1 and (-) to TP14, and adjust VR2 so that the voltage is in the specification.
2. Connect the Digital Volt Meter (+) to TP2 and (-) to TP14, and adjust VR3 so that the voltage is in the specification.

2. SYS (System Control) Board

2-1. Battery Voltage Detect Adjustment

BOARD	VOUT/SYS
TP	DC IN (See Figure Below)
ADJ.	SERVICE MENU ”H00”
TAPE	---
INPUT	EJECT
MODE	---
M. EQ	Digital Volt Meter
SPEC.	12.00V ± 0.02V

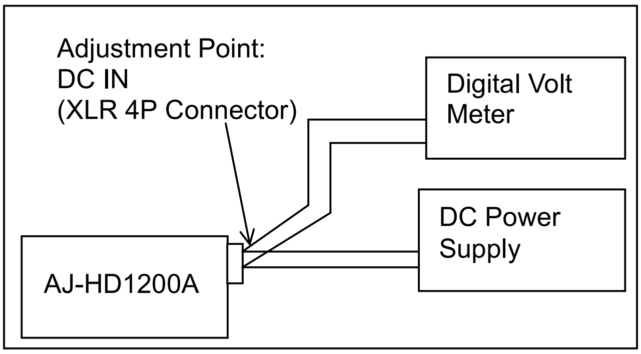
<Service Manu Setting>

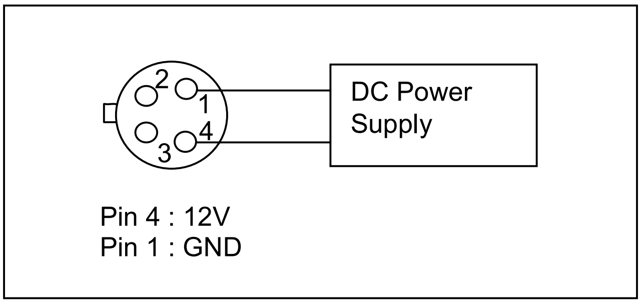
H00: OTHER ADJUST ----- H21: UNDERCUT ADJ

1. Set the 2nd bit of DIP SW1 on the VOUT/SYS Board to the ON position.
2. Set the “LOCAL/MENU/REMOTE” switche on the rigit upper side of the front panel to the MENU position.
3. Supply a DC Power from DC Supply to the XLR 4 pin connector on the rear panel as shown in the figure below.
4. Connect the Digital Volt Meter to the DC Power Supply as shown in the figure below.
5. Adjust the voltage of the DC power Supply so that the voltage is 12.00V ± 0.02V.
6. Open the Service Menu and select H00: OTHER ADJUST (H21: UNDERCUT ADJ).
7. Continually pushing the MODE button until the display is updated.
8. To return the main menu, press the PAGE and MODE buttons together.
9. Return the LOCAL/MENU/REMOTE switch to the LOCAL position, and 2nd bit of DIP SW2 to the “OFF” position.

<CAUTION>

1. Disconnect an AC cable and make this adjustment with DC Power. Supply.
2. This adjustment should be performed after completion of the Paragraph “1-1. Output Voltage Adjustment”.





Pin 4 : 12V
Pin 1 : GND

<Confirmation of Under Cut Operation>

1. After completion of the above adjustment, confirm the “Under Cut Operation”
2. Make sure that the Optional IF Boards AJ-YA120AG and AJ-YAD120AG are installed. If not, install them according to the Operation Instraction.
3. Supply DC 12.00V from DC Power Supplier to the XLR 4 pin connector and connect the digital volt meter as shown in the above figire.
4. Turn on the VTR power and insert a cassette tape, and place the VTR in the STOP mode.
5. Observe the VTR condition while decrease the voltage at the XLR connector for 10.60V ± 0.20V.
6. Confirm that the VTR changes to Auto Eject and then Auto Off mode.
7. If it does not, perform the adjustment steps 1 to 9 again.

3. SERVO Board

3-1. FG DC Adj.

BOARD	SERVO
TP	--------
ADJ.	SERVICE MENU
TAPE	--------
INPUT	--------
MODE	--------
M. EQ	--------
SPEC.	Perform the procedure below.

<Service Manu Setting>
SERVO ADJUST ----- A01: FG DC ADJ

1. Open the service menu and select the above.
2. The VTR performs the following operation, when continuously pressing the “MODE” button on the Front Panel.
   1) Brake Solenoid ON (Brake OFF)
   2) Capstan Motor Rotates
   3) Reel Motors Rotate

   After 5-10 seconds,

   4) Brake Solenoid OFF (Brake ON)
   5) FG DC Adjustment
3. When the FG DC adjustment is completed, it shows “A01: FG DC ADJ” “OK”.

<Note>
This adjustment is needed after replacing of Mechanical Chassis, Servo Board or VOUT/SYS Board.

3-2. Reel Torque Gain Adj.

BOARD	SERVO
TP	--------
ADJ.	SERVICE MENU
TAPE	--------
INPUT	--------
MODE	EJECT
M. EQ	--------
SPEC.	Perform the procedures below.

<Service Manu Setting>
SERVO ADJUST ----- A02: RL GAIN ADJ

1. Open the service menu and select the above.
2. The VTR perfumes the following operation, when continuously pressing the “SEARCH” button on the Front Panel.
   1) T Reel Rotates
   2) S Reel Rotates
3. After 5-6 seconds, the adjustment value on the monitor will be disappeared and then updated.
4. Repeat the steps 2 and 3 again.

<Note> This adjustment should be performed before “3-3. Reel Torque Offset Adjustment”.

3-3. Motor Torque Offset Adj.

BOARD	SERVO
TP	REEL MOTOR
ADJ.	SERVICE MENU
TAPE	---
INPUT	---
MODE	---
M. EQ	Dial Torque Gauge (VFK1191A) Dial Torque Gauge Adaptor (VFK1152)
SPEC.	0.16cN·m ± 0.01cN·m (Average of 5 times monument)

<Service Manu Setting>
SERVO ADJUST ----- A03: T TORQUE
SERVO ADJUST ----- A04: S TORQUE

1. Open the service menu and select the above.
2. Set the Dial Torque Gauge with Torque Gauge Adaptor on the T reel table.
3. Press the “MODE” button on the Front Panel.
4. Adjust the T Reel Torque by pressing the <+> and <-> buttons on the Front Panel so that the average of 5 times measurement is in the specification.
5. Press the “SET” switch on the Front Panel.
6. Perform the same steps for the S Reel Table.

3-4. PG Sifter Adj.

BOARD	SERVO
TP	SERVIE MENU
ADJ.	---
TAPE	VFM3780KML
INPUT	---
MODE	PLAY
M. EQ	OSCILLOSCOPE
SPEC.	Performer the procedures below.

<Service Manu Setting>
SERVO ADJUST ----- A05: PG SHFTER

1. Open the service menu and select the above.
2. Play back the HDLP Alignment Tape.
3. Continuously press the “MODE” switch on the Front Panel so that the previous data disappears and new data come up.

3-5. Photo Sensor Voltage Adj.

Refer the Paragraph 1-3. Photo Sensor Voltage Adj. in the “Section 3 (Mechanical Adjustment).

3-6. Tension Arm Offset Adj.

Refer the Paragraph 1-5. Tension Arm Offset Adj. in the “Section 3 (Mechanical Adjustment).

3-7. Tension Arm Play Voltage Adj.

Refer the Paragraph 1-7. Tension Arm Play Voltage Adjustment in the “Section 3 (Mechanical Adjustment).

4. RF/EQ Board

< Note >

After replacing the cylinder unit, perform the paragraphs 4-1, 4-2, 4-3 and 4-4. “RF Level Adjustments” before performing LISTA adjustment.

4-1. RF Level Adj. (HDLP)

BOARD	RF/EQ
TP	See Table Below
ADJ.	Service Menu
INPUT	----
MODE	STILL
TAPE	VFM3780KML (Color Bar)
M. EQ	Oscilloscope
SPEC.	A Max = 500mVp-p ± 50mV

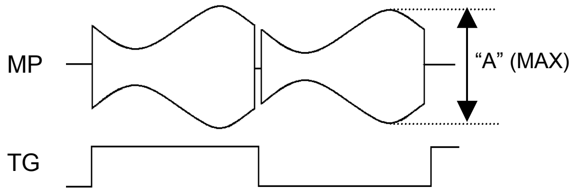
<Service Menu Setting>

B00: RF ADJUST ---- B-1: HDLP PB ADJUST

1. Open the service menu and select the “HDLP PB ADJUST”.
2. Connect the oscilloscope to Measuring Point (MP) and Trigger Point (TG) as shown in the table below.
3. Play back the HDLP alignment tape (VFM3780KML) in the STILL mode.
4. Adjust each EVR so that the envelope maximum level is in the specification.
5. To save the EVR data, select B22 DEFAULT and press the “Set Button”, then the “SAVE” indication appears, press the “SET Button” again.

B1: HDLP_PB ADJUSTMENT

Test Point		Adj. EVR	Trigger Point
TP201	B01	PB MAG L1	TP1
(PB L13ch)	B02	PB MAG L3	(PB L13 HSW)
TP202	B03	PB MAG R1	TP2
(PB R13ch)	B04	PB MAG R3	(PB R13 HSW)
TP203	B05	PB MAG L2	TP3
(PB L24ch)	B06	PB MAG L4	(PB L24 HSW)
TP204	B07	PB MAG R2	TP4
(PB R24ch)	B08	PB MAG R4	(PB R24 HSW)
TP205	B09	RP MAG L1	TP5
(RP L12ch)	B10	RP MAG L2	(RP L12 HSW)



Refer the measuring point (MP) and torigger point (TG) in the above for each head.

4-2. RF Level Adj. (HDSP)

BOARD	RF/EQ
TP	See Table Below
ADJ.	Service Menu
INPUT	----
MODE	STILL
TAPE	VFM3580KM or KL (25M Color Bar)
M. EQ	Oscilloscope
SPEC.	“A” Max = 500mVp-p ± 50mV (TP201, TP202, TP203, TP204) “A” Max = 750mVp-p ± 50mV (TP205)

<Service Menu Setting>

B00: RF ADJUST ---- B-2 HDSP ADJUST

1. Open the service menu and select the “HDSP PB ADJUST”.
2. Connect the oscilloscope to Measuring Point (MP) and Trigger Point (TG) as shown in the table below.
3. Play back the 25M alignment tape (VFM3580KMor KL) in the STILL mode.
4. Adjust each EVR so that the envelope maximum level is in the specification.
5. To save the EVR data, select B22 DEFAULT and press the “Set Button”, then the “SAVE” indication appears, press the “SET Button” again.

<Note>

Since the adjustment value of TP205 differs from others.

B2: HDSP_PB ADJUSTMENT

Test Point		Adj. EVR	Trigger Point
TP201	B01	PB MAG L1	TP1
(PB L13ch)	B02	PB MAG L3	(PB L13 HSW)
TP202	B03	PB MAG R1	TP2
(PB R13ch)	B04	PB MAG R3	(PB R13 HSW)
TP203	B05	PB MAG L2	TP3
(PB L24ch)	B06	PB MAG L4	(PB L24 HSW)
TP204	B07	PB MAG R2	TP4
(PB R24ch)	B08	PB MAG R4	(PB R24 HSW)
TP205	B09	TR MAG L2	TP7
(TR L21ch)	B10	TR MAG L1	(TR L21 HSW)

4-3. RF Level Confirmation (SDSP)

BOARD	RF/EQ
TP	See Table Below
ADJ.	Service Menu
INPUT	----
MODE	STILL
TAPE	VFM3580KM or KL (25M Color Bar)
M. EQ	Oscilloscope
SPEC.	"A" Max = 500mVp-p ± 100mV (TP201, TP202, TP203, TP204) "A" Max = 750mVp-p ± 100mV (TP205)

<Service Menu Setting>

B00: RF ADJUST ---- B-3 SDSP ADJUST

1. Open the service menu and select the "SDSP PB ADJUST".
2. Connect the oscilloscope to Measuring Point (MP) and Trigger Point (TG) as shown in the table below.
3. Play back the 25M alignment tape (VFM3580KM or KL) in the STILL mode.
4. Make sure that each envelope maximum level is in the specification.

<Note>

Since the adjustment value of TP205 differs from others.

B-3: SDSP_PB ADJUSTMENT

Test Point		Trigger Point
TP201 (PB L13ch)	B01 B02	TP1 (PB L13 HSW)
TP202 (PB R13ch)	B03 B04	TP2 (PB R13 HSW)
TP203 (PB L24ch)	B05 B06	TP3 (PB L24 HSW)
TP204 (PB R24ch)	B07 B08	TP4 (PB R24 HSW)
TP205 (TR L21ch)	B09 B10	TP7 (TR L21 HSW)

4-4. RF Level Confirmation (DVSP)

BOARD	RF/EQ
TP	See Table Below
ADJ.	Service Menu
INPUT	----
MODE	STILL
TAPE	VFM3010ESD (Color Bar)
M. EQ	Oscilloscope
SPEC.	A Max = 500mVp-p ± 100mV

<Service Menu Setting>

B00: RF ADJUST ---- B-4 SDSP ADJUST

1. Open the service menu and select the "SDSP PB ADJUST".
2. Connect the oscilloscope to Measuring Point (MP) and Trigger Point (TG) as shown in the table below.
3. Play back the DV alignment tape (VFM3010ESD) in the STILL mode.
4. Make sure that each envelope maximum level is in the specification.

B-4: DVSP_PB ADJUSTMENT

Test Point		Trigger Point
TP201 (PB L13ch)	B01 B02	TP1 (PB L13 HSW)
TP202 (PB R13ch)	B03 B04	TP2 (PB R13 HSW)
TP203 (PB L24ch)	B05 B06	TP3 (PB L24 HSW)
TP204 (PB R24ch)	B07 B08	TP4 (PB R24 HSW)
TP205 (RP L12ch)	B09 B10	TP5 (RP L12 HSW)

4-5. Automatic Adjustment Procedure

(Software)

This software is for Automatic RF Adjustment of DVCPRO HD VTR, model AJ-HD1200A.
This adjustment should be performed after completion of the RF Level Adjustment.

< Function >

1) RF Adjustment
   [DVCPRO HD-LP (Recording and Playback), DVCPRO HD-SP, DVCPRO 50, DVCPRO and DV(Playback)]
2) Checking of Error Rate
3) Download and Upload of EVR Data
4) Saving/ Loading the data of Error Rate and EVR
5) Printing the data of Error Rate and EVR

(Before Installation)

* PC Condition

OS	:	Windows95/ 98/ 98SE/ ME/ 2000 or Over
Display	:	Over 256 color (if lower than 256 color, the color may have the distortion)

* How to get this software

Download **"Automatic RF Adjustment Software (VFK1892)"** from Jig software page on Global Service Web site.

* Installation Method

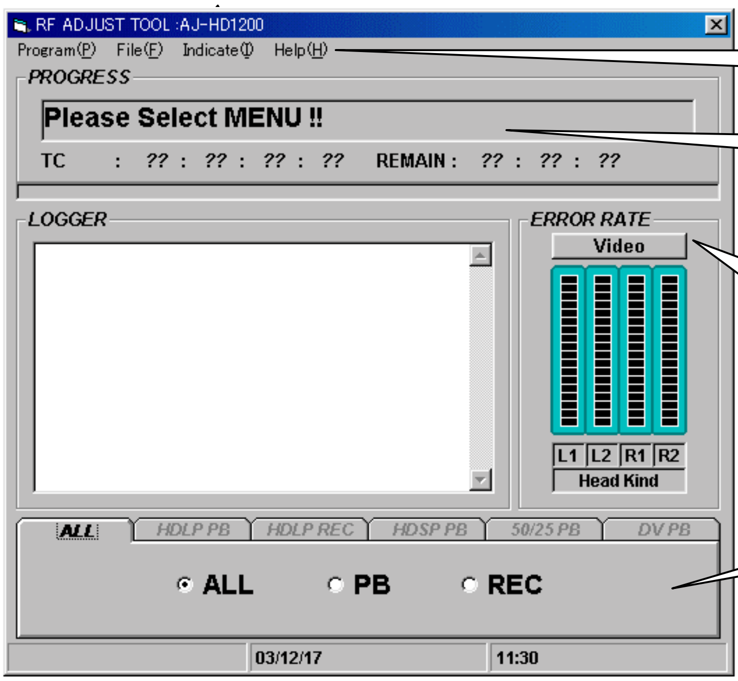
1) Extract the downloaded software.
2) Click **"setup.exe"**.
3) Follow the indication.

* Un-installation Method

Open **"Control Panel"** on Windows and use **"Add/Remove Programs"** to un-install this software.

(Explanation of Each Windows)

a) Main Window


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
PROGRESS
TC : ?? : ?? : ?? : ??
REMAIN : ?? : ?? : ??
LOGGER
ERROR RATE
Video
L1
L2
R1
R2
Head Kind
ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB
ALL
PB
REC
03/12/17
11:30

Please Select MENU !!

Message Box

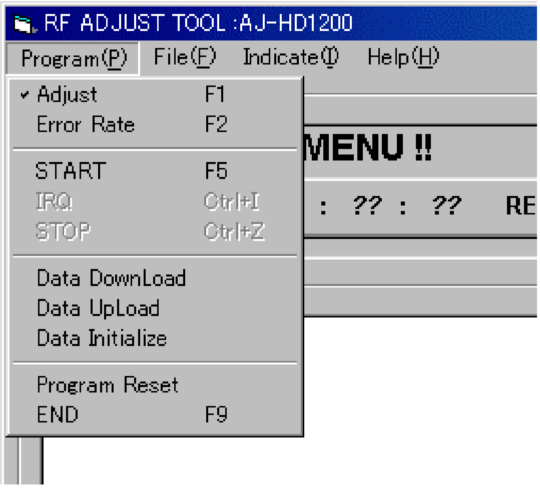
Menu Bar

Error Rate Indication Bar

Selection Box for Adj. / Measurement Mode.

a-1) Explanation of Main window and menu bar.

1) Program Menu


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
Adjust F1
Error Rate F2
START F5
IRQ Ctrl+I
STOP Ctrl+Z
Data DownLoad
Data UpLoad
Data Initialize
Program Reset
END F9
MENU !!
: ?? : ?? RE

[Adjust]
Adjustment program can be selected clicking this portion.

[Error Rate]
Error rate check can be selected clicking this portion.

[START]
Adjustment or Error rate checking can be started by clicking this portion.

[IRQ]
Break into the program during execution by clicking this portion. (It is effective, only on limited process.)

[STOP]
The program can be stopped, forcibly by clicking this portion.

[Data Download]
Receiving EVR data to PC from the attached VTR. (VTR to PC)

[Data Upload]
Transfer the RF adjustment data from PC to VTR for setting up. (PC to VTR)

* Data Upload can not be accessed unless **“Data Download”**, **“Load on File menu”** or **all adjustment program** is executed.

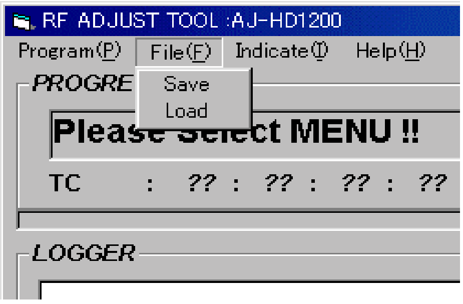
[Data Initialize (include Upload)]
Setting up the RF initial adjustment data into the attached VTR.

[Program Reset]
All parts of application program can be reset.

[END]
By clicking this portion, application software can be closed.

2) File menu

By clicking this, error rate data and EVR data can be processed as a file.


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
PROGRE
Save
Load
Please Select MENU !!
TC : ?? : ?? : ?? : ??
LOGGER

[Save]

Error rate and/or EVR data can be saved on the file.
During this mode, following file can be made. ***.dst

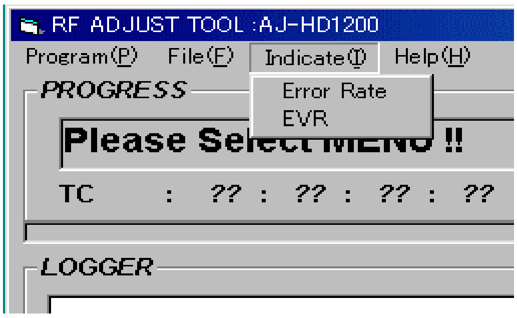
* This item can not be accessed unless **"Data Download"**, **"Load on File menu"** or **all adjustment program** is executed.

[Load]

Error rate and/ or EVR data can be loaded from the file (***.dst).

3) Indicate Menu

This is the menu which indicates ErrorRate/ EVR (Adjustment value)


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
PROGRESS
Error Rate
EVR
Please Select MENU !!
TC : ?? : ?? : ?? : ??
LOGGER

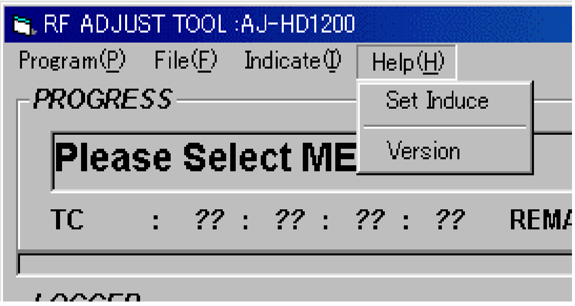
[Error Rate]

Error rate data can be displayed.

[EVR]

EVR data can be displayed.

4) Help Menu


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
PROGRESS
Set Induce
Version
Please Select ME
TC : ?? : ?? : ?? : ??
REMA
LOGGER

[Manual]

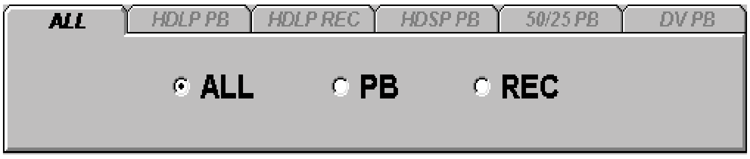
This software doesn't use this function.

[Version]

Software version is displayed.

a-2) Adjustment/ Measurement item selection BOX

1) Selection of Adjustment/ Measurement category


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

● ALL ○ PB ○ REC

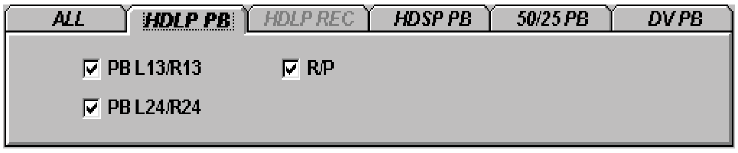
[ALL]
All items are selected.

[PB]
Playback category is selected. HDLP PB, HDSP PB, 50/25 PB or DV PB can be individually selected.

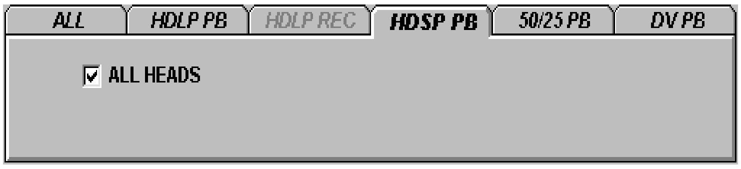
[REC]
Recording category is selected. (HDLP) can be individually selected.

2) Selection of Playback Category

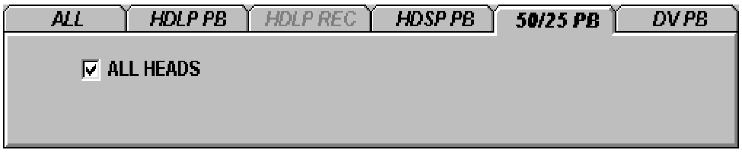
Select each item according to the one which the adjustment (measurement) is required.
Check mark on the BOX shows that its item is selected (valid)


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

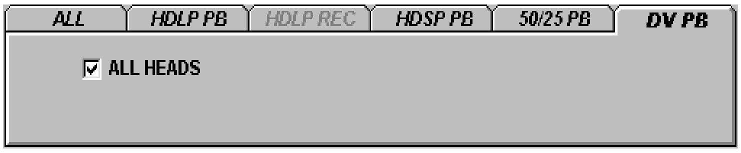
☑ PB L13/R13 ☑ R/P
☑ PB L24/R24


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

☑ ALL HEADS


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

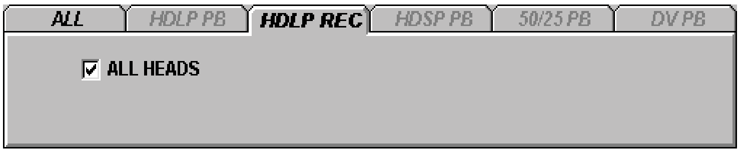
☑ ALL HEADS


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

☑ ALL HEADS

3) Selection of Recording Category

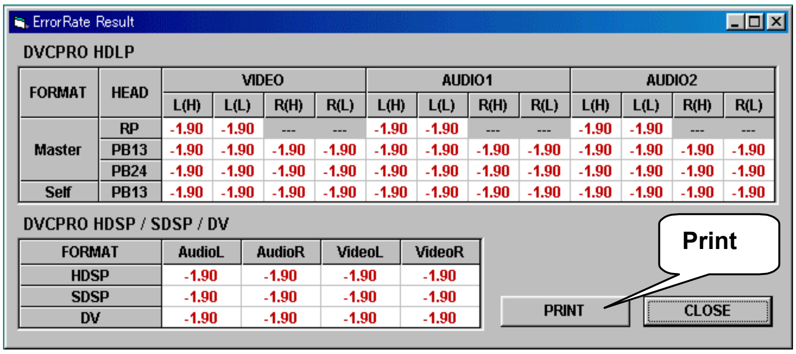
Select each item according to the one which the adjustment (measurement) is required.
Check mark on the BOX shows that its item is selected (valid)


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

☑ ALL HEADS

b) The result of error rate

The error rate data can be displayed and printed.



DVCPRO HDLP

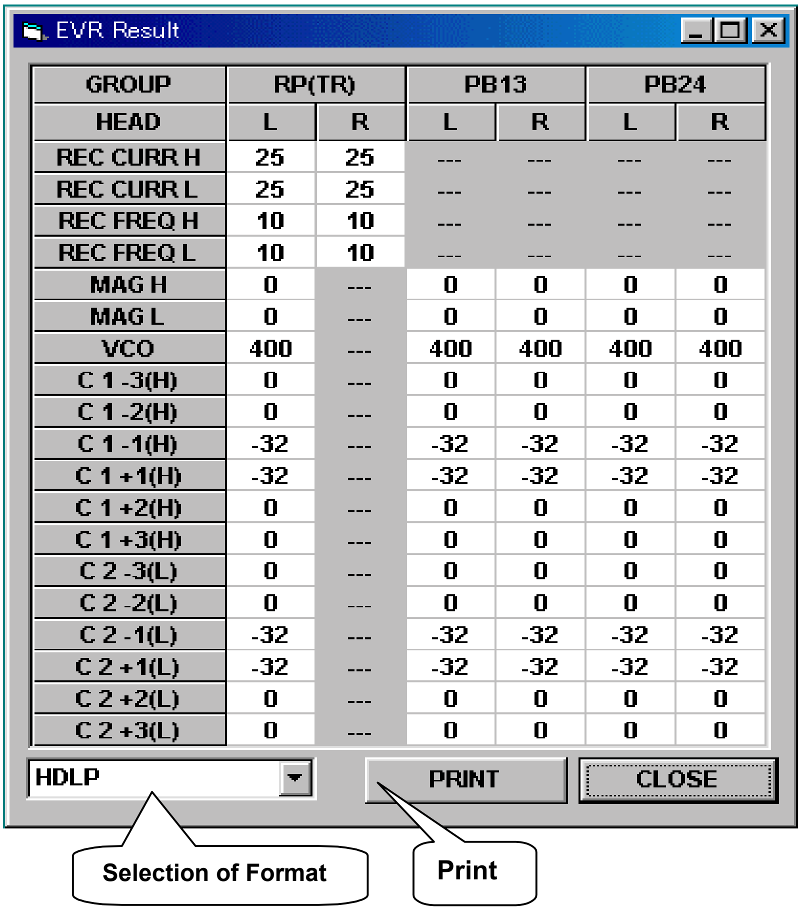
FORMAT	HEAD	VIDEO				AUDIO1				AUDIO2			
		L(H)	L(L)	R(H)	R(L)	L(H)	L(L)	R(H)	R(L)	L(H)	L(L)	R(H)	R(L)
Master	RP	-1.90	-1.90	---	---	-1.90	-1.90	---	---	-1.90	-1.90	---	---
	PB13	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90
	PB24	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90
Self	PB13	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90

DVCPRO HDSP / SDSP / DV

FORMAT	AudioL	AudioR	VideoL	VideoR
HDSP	-1.90	-1.90	-1.90	-1.90
SDSP	-1.90	-1.90	-1.90	-1.90
DV	-1.90	-1.90	-1.90	-1.90

c) EVR value Chart

The EVR value (adjustment data) can be displayed and printed.



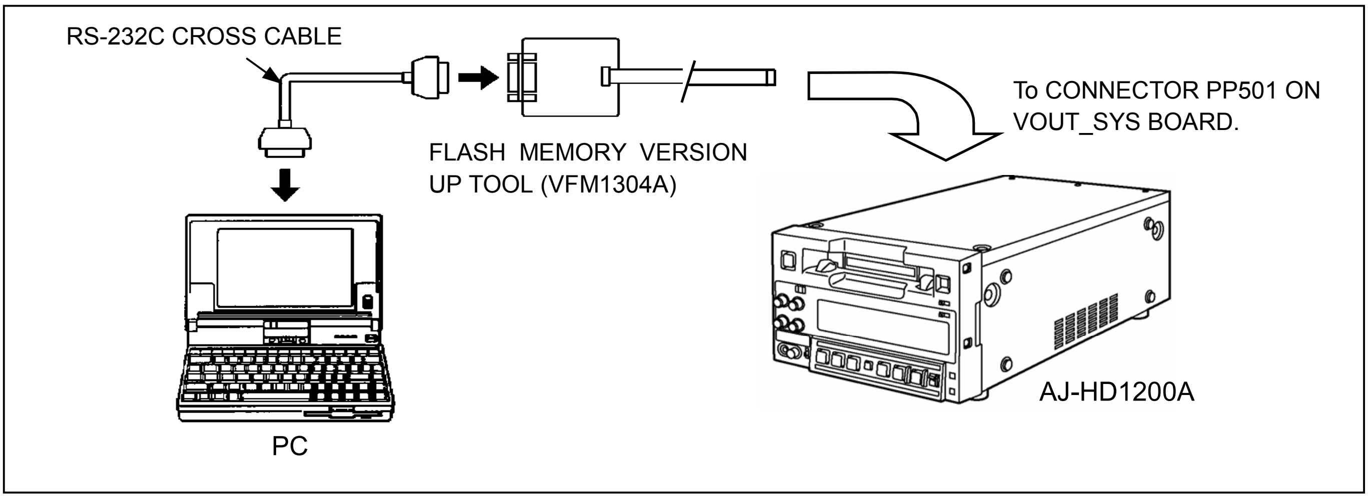
GROUP	RP(TR)		PB13		PB24	
HEAD	L	R	L	R	L	R
REC CURR H	25	25	---	---	---	---
REC CURR L	25	25	---	---	---	---
REC FREQ H	10	10	---	---	---	---
REC FREQ L	10	10	---	---	---	---
MAG H	0	---	0	0	0	0
MAG L	0	---	0	0	0	0
VCO	400	---	400	400	400	400
C 1 -3(H)	0	---	0	0	0	0
C 1 -2(H)	0	---	0	0	0	0
C 1 -1(H)	-32	---	-32	-32	-32	-32
C 1 +1(H)	-32	---	-32	-32	-32	-32
C 1 +2(H)	0	---	0	0	0	0
C 1 +3(H)	0	---	0	0	0	0
C 2 -3(L)	0	---	0	0	0	0
C 2 -2(L)	0	---	0	0	0	0
C 2 -1(L)	-32	---	-32	-32	-32	-32
C 2 +1(L)	-32	---	-32	-32	-32	-32
C 2 +2(L)	0	---	0	0	0	0
C 2 +3(L)	0	---	0	0	0	0

HDLP

4-6. Auto EQ Adjustment Procedure

A) Preparation

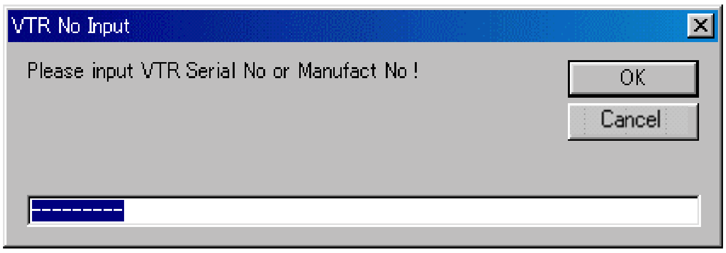
1) Connect the VTR with PC by RS232C cable (Cross cable) as below.


RS-232C CROSS CABLE
FLASH MEMORY VERSION UP TOOL (VFM1304A)
To CONNECTOR PP501 ON VOUT_SYS BOARD.
AJ-HD1200A
PC

2) Turn the VTR power on.
3) Press the Counter Button on the Front Panel to select the “TC”.
4) Turn the 2nd bit of SW1 on the VOUT SYS on.
5) Set the LOCAL/MENU/REMOTE switch on the Front Panel at the “MENU”.
6) Select “022 PB_FORMAT” and then select “AUTO”.
7) Set the LOCAL/MENU/REMOTE switch on the Front Panel at the “REMOTE”.
8) Set the TAPE/EE switch on the Front Panel at the “TAPE”

B) Execution of Software Application.

1) Confirm that the VTR power is on.
2) Select start → Program → Panasonic Tool → HD1200Rf in the Start menu program in PC.
3) Main screen of the application software appears.
4) Open the program menu and select as follows;
   Adjustment: Select **“Program → Adjust”**.
   Measurement: Select **“Program → Error Rate”**.
5) Select the item needed about adjustment & measurement from. Adjustment/ Measurement item selection BOX (refer to (a-2)).
6) Select **“Program → Start”**
7) Input the Serial No. or Manufacture. No. and press **“OK”**.


VTR No Input

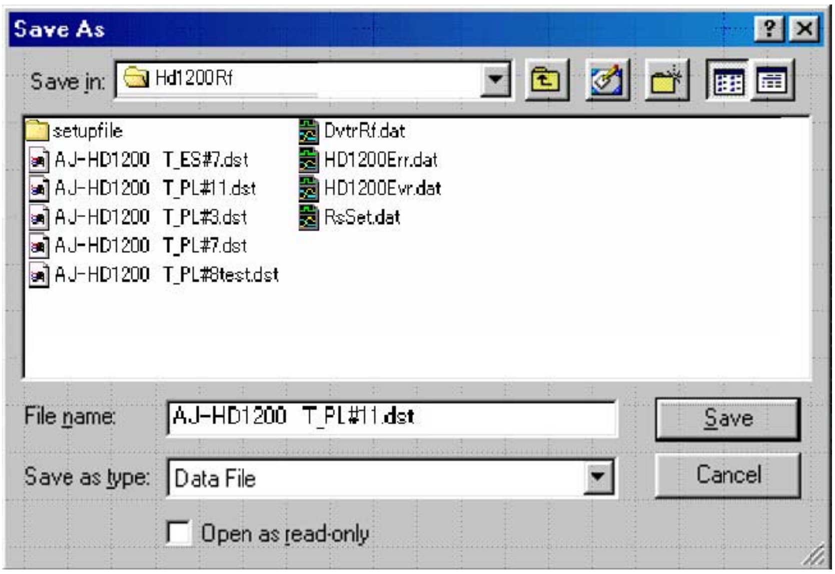
Please input VTR Serial No or Manufact No !

8) Follow the indication on the message box. Then adjustment is started automatically.
9) Error result is displayed after executing the adjustment program. Press close button after confirming it.
10) Select **“File → Save”** in order to save the Error rate data & EVR data to PC.
11) If it is not needed to save them, skip this process.

(Caution)
This item can not be accessed unless **“Data Download”**, **“Load on File menu”** or **all adjustment program** is executed.

12) The screen of item (7) appears again. Press **“OK”** button if serial data information is not required to be changed.

13) Following screen appears. Press **"SAVE"** button.



Save in: Hd1200Rf

setupfile
AJ-HD1200 T_ES#7.dst
AJ-HD1200 T_PL#11.dst
AJ-HD1200 T_PL#3.dst
AJ-HD1200 T_PL#7.dst
AJ-HD1200 T_PL#8test.dst
DvtrRf.dat
HD1200Err.dat
HD1200Evr.dat
RsSet.dat

File name: AJ-HD1200 T_PL#11.dst

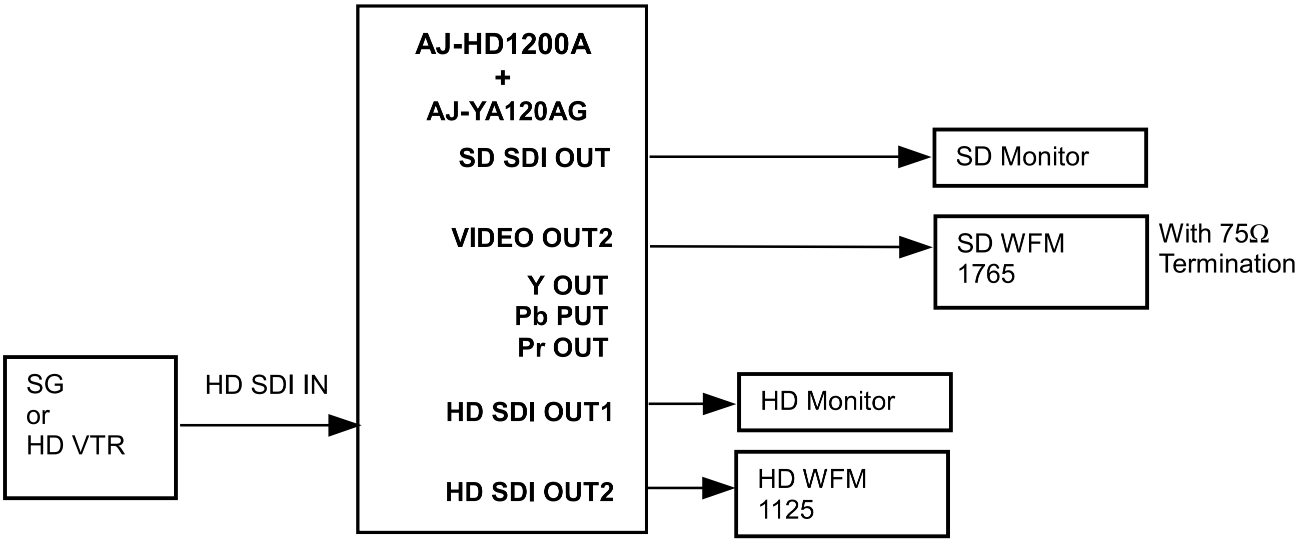
Save as type: Data File

(Reference)

1) Storing the adjustment data manually is not necessary because the adjustment data is automatically stored in the memory after finishing the Automatic Equalizer adjustment.
2) Select **"Program STOP"** if the program needs to be stopped.
3) Remaining time of the tape is monitored by this program. VTR automatically rewinds the tape when the Tape remaining time isn't enough for adjustment or measurement. (Select **"Program → IRQ"** if required to stop REW mode.)

5. V OUT Board

5-1. Connection

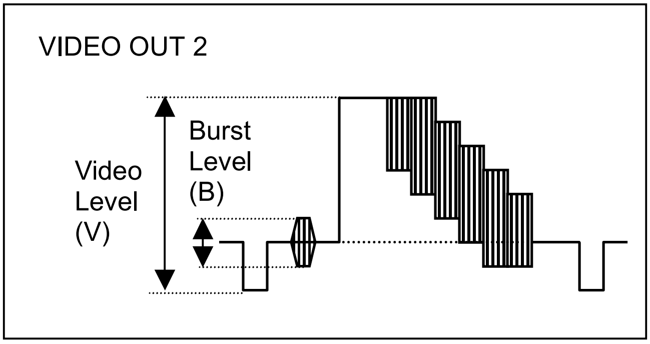

AJ-HD1200A
+
AJ-YA120AG
SD SDI OUT
VIDEO OUT2
Y OUT
Pb PUT
Pr OUT
HD SDI OUT1
HD SDI OUT2
SD Monitor
SD WFM
1765
With 75Ω
Termination
HD Monitor
HD WFM
1125
SG
or
HD VTR
HD SDI IN

Note:
1. All cable should be 75Ω and 1.5m.
2. Optional Board AJ-YA120AG should be installed in the AJ-HD1200A

5-2. VIDEO OUT2 Level and Frequency Response Adj.

BOARD	VOUT/SYS
TP	VIDEO OUT 2
ADJ.	VR430, VR431
INPUT	----
MODE	HD SDI IN : 1080/59i Color Bar
TAPE	EE
M. EQ	WFM(1765), Vectorscope
SPEC.	Video Level (V) = 1000mV±10mV Burst Level (B) =286mV ± 7mV Vector Dot = ±2.5°, ±2.5%

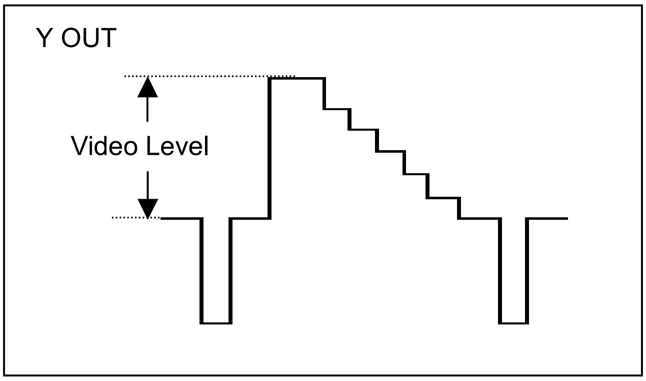
1. Adjust VR430 so that the video level (V) is in the specification.
2. Adjust VR431 so that the burst level (B) is in the specification.
3. The vector dot in the vector scope be within the specification.


VIDEO OUT 2
Video
Level
(V)
Burst
Level
(B)

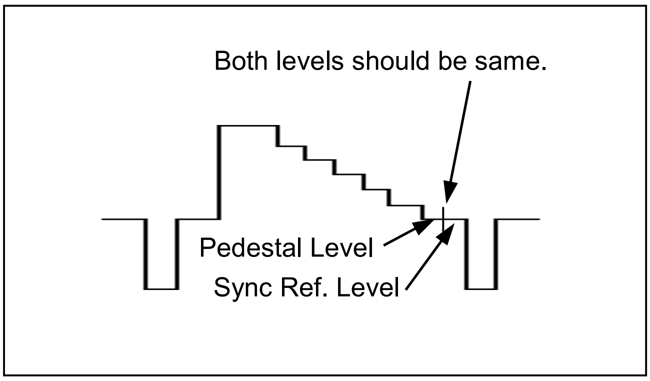
5-3. Y/G OUT Level Adj.

BOARD	VOUT/SYS
TP	Y/G OUT
ADJ.	VR300, VR306, VR307
INPUT	----
MODE	HD SDI IN : 1080/59i Color Bar
TAPE	EE
M. EQ	Oscilloscope
SPEC.	Video (V) = 700mV±10mV Sync Ref. Level = Pedestal Level (0mV DC±5mV DC) Sync Level = 600mV±10mV

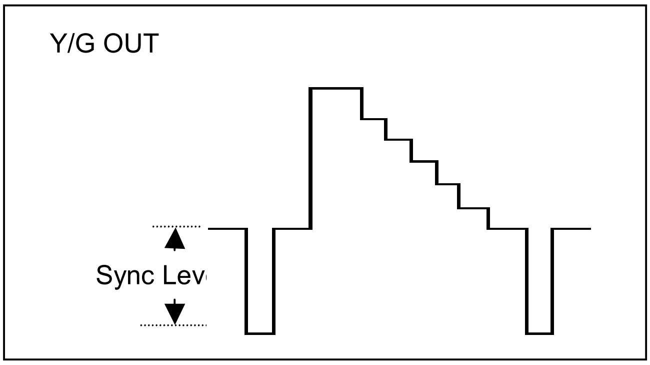
1. Adjust VR300 so that the video level (V) is in the specification.


Y OUT
Video Level

2. Adjust VR307 so that the pedestal level meets to the sync reference level.


Both levels should be same.
Pedestal Level
Sync Ref. Level

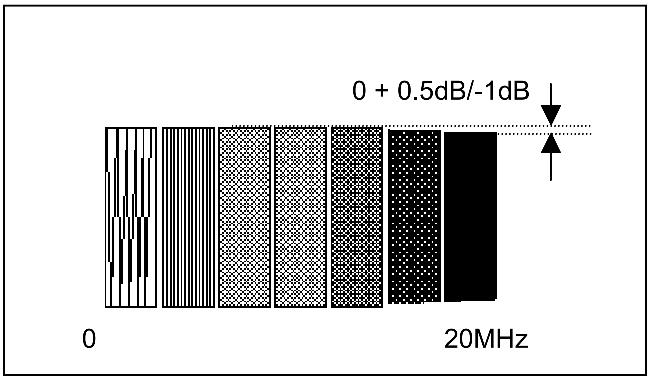
3. Adjust VR306 so that the sync level is in the specification.


Y/G OUT
Sync Lev

5-4. Y/G OUT Frequency Response Adj.

BOARD	VOUT/SYS
TP	Y/G OUT
ADJ.	VR303
INPUT	----
MODE	HD SDI IN : 1080/59i, Multiburst (Y/Pb/Pr)
TAPE	EE
M. EQ	Oscilloscope
SPEC.	0-20MHz = Flat (0+0.5dB/-1dB)

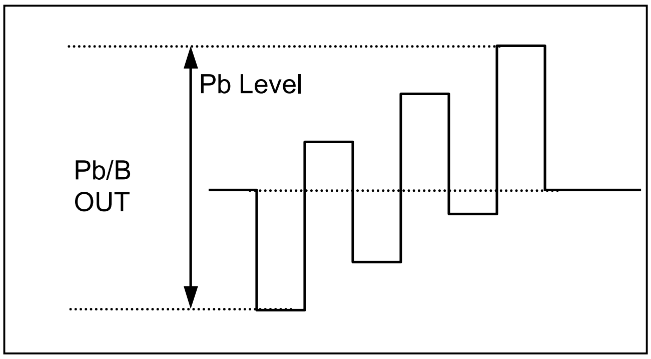
1. Adjust VR303 so that the frequency from 0 to 20MHz is in the specification.


0 + 0.5dB/-1dB
0
20MHz

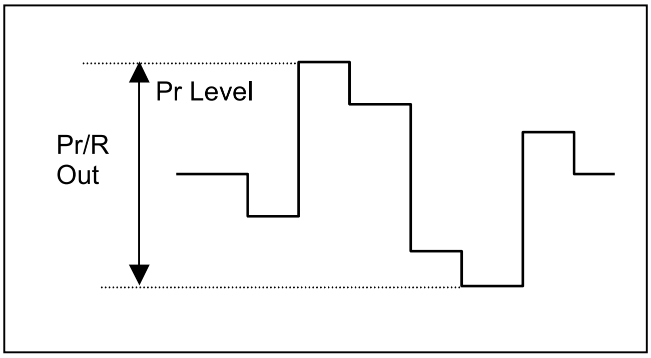
5-5. Pb/B OUT, Pr/R OUT Level Adj.

BOARD	VOUT/SYS
TP	Pb/B OUT, Pr/R OUT
ADJ.	VR301, VR302
INPUT	----
MODE	HD SDI IN : 1080/59i Color Bar (100% With Chroma)
TAPE	EE, EJECT
M. EQ	Oscilloscope
SPEC.	Pb/B OUT Level = 700mV±10mV Pr/R OUT Level = 700mV±10mV

1. Adjust VR301 so that the Pb level is in the specification.


Pb Level
Pb/B
OUT

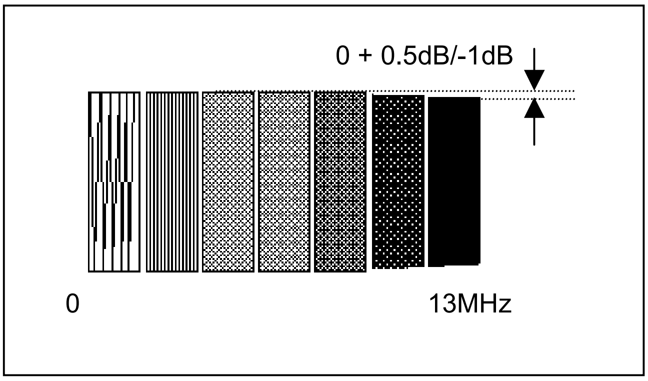
2. Adjust VR302 so that the Pr level is in the specification.


Pr Level
Pr/R
Out

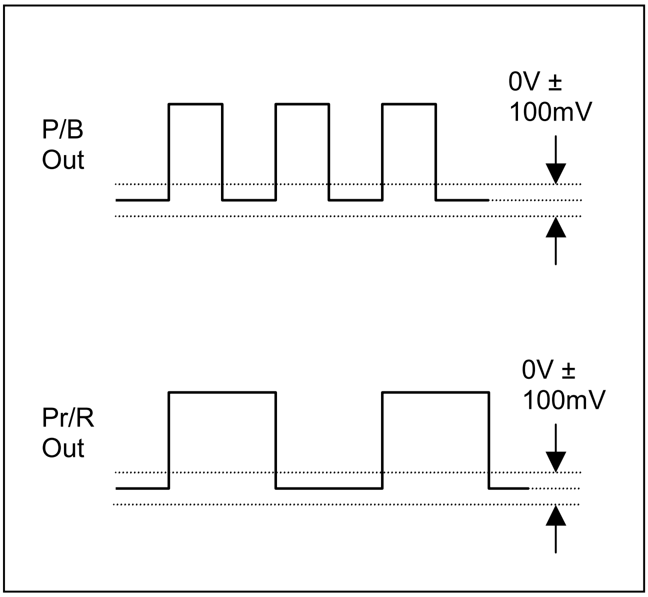
5-6. Pb/B OUT, Pr/R OUT Frequency Response and DC Level Adj.

BOARD	VOUT/SYS
TP	Pb/B OUT, Pr/R OUT
ADJ.	VR304 (Pb LV), VR305 (Pr LV)
INPUT	----
MODE	HD SDI IN : 1080/59i, Multiburst (Y/Pb/Pr)
TAPE	EE
M. EQ	Oscilloscope
SPEC.	Pb/Pr : 0-1.3MHz = Flat (0+0.5dB/-1dB) R/G/B DC Level: 0V ± 100mV

1. Connect the oscilloscope to the Pb/B output and adjust VR304 so that the frequency from 0 to 13MHz is in the specification.
2. Connect the oscilloscope to the Pr/R Output and adjust VR305 so that the frequency from 0 to 13MHz is in the specification.



3. Open the setup menu (616) and select the RGB from the Y/Pb/Pr.
4. Confirm that the DC level on the RGB signal is in the specification.



6. A PROC (Audio) & CUE Boards

6-1. Initial Setting

- In order to perform the audio recording and playback adjustment, Optional Board AJ-YA120AG should be installed.

<Switches on the Front Panel>

Set the Switch and Control on the Front Panel as shown below.

Switch & Control	Setting
REC VR (CH1, 2, 3, 4)	PUSH DOUN
HP VR	CENTER
AUDIO MON SELECT	ST
REMOTE/MENU/LOCAL	LOCAL

<Audio Analyzer Setting>

Set the Audio Analyzer as shown below.

Item	Setting
GENERATOR OUTPUT	50Ω (A&B, BAL, FLOAT)
ANALYZER CHA INPUT	100Ω
ANALYZER CHB INPUT	100Ω
UNIT SETTING	dBu

<Service Menu Setting>

1. Turn ON the 2nd pin of DIP SW1 on the V OUT/SYS Board.
2. Set the REMOTE/MENU/LOCAL switch on the right side of Front Panel to the MENU position so that the “Service Menu” appears.
3. Move the cursor to the following number and set each item.

No.	Item	Setting
G01	REF. LEVEL1	P : FS20 E/MC : FS18
G02	REF. LEVEL2	0dB
G03	REF.LV INI	P/E : 0dB MC : 4dB
G21	IN IMP INI	HIGH
G22	AUD OUT SELUE	TYPE 1

< Setup Menu Setting for Audio >

1. Set the REMOTE/MENU/LOCAL switch on the right side of Front Panel to the MENU position so that the “Service Menu” appears.
2. Move the cursor to the following number and set each item.

No.	Item	Setting	
		P/E	MC
700	AUDIO IN SE L	ANA	
701	CH1 IN LV	0dB	+4dB
702	CH2 IN LV	0dB	+4dB
703	CH3 IN LV	0dB	+4dB
704	CH4 IN LV	0dB	+4dB
706	CH1 OUT LV	0dB	+4dB
707	CH2 OUT LV	0dB	+4dB
708	CH3 OUT LV	0dB	+4dB
709	CH4 OUT LV	0dB	+4dB
730	REC CUE	CH1+2	
731	PB FADE	AUTO	
732	EMBEDED AUD	ON	
765	CUE OUT SEL	OFF	
769	MONI SEL	PLYPCM	
770	MONITOR MIX	STEREO	
771	H.PHONE MIX	STEREO	
780	AUD OUT SEL	LINE	
781	IN IMP SEL	HIGH	

6-2. Output Level Adj.

BOARD	A PROC
TP	LINE OUT (CH1-CH4)
ADJ.	VR201 [CH1 OUT LV] VR202 [CH2 OUT LV] VR203 [CH3 OUT LV] VR204 [CH4 OUT LV]
INPUT	INT SG (MENU:700)
MODE	EE
TAPE	---
M. EQ	Monitor TV, Oscilloscope, Audio Analyzer
SPEC.	AJ-HD1200AP/E: 0 dBu ± 0.2dB AJ-HD1200AMC : +4 dBu ± 0.2 dB

1. Open the setup menu and select the “(700): AUDIO IN SEL”, and set the “INT SG”.
2. Adjust VR201, VR202, VR203 and VR204 so that the Line Output Level at CH1-CH4 is in the specification.
3. Make sure that the Audio Level Meters CH1 and CH2 show as follows.
   AJ-HD1200AP -------------- -20dB
   AJ-HD1200 A E /MC ------ -18dB
4. Change the Audio Level Meter selection to the CH3 and CH4, and confirm that the meter show the same as above.

6-3. Input Level Adj.

BOARD	A PROC_CUE
TP	LINE OUT (CH1-CH4)
ADJ.	VR401 [CH1 IN LV] VR402 [CH2 IN LV] VR403 [CH3 IN LV] VR404 [CH4 IN LV]
INPUT	AUDIO IN (CH1-CH4)
MODE	EE
TAPE	---
M. EQ	Monitor TV, Oscilloscope, Audio Analyzer
SPEC.	AJ-HD1200AP/E : 0 dBu ± 0.2dB AJ-HD1200AMC : +4 dBu ± 0.2 dB

1. Adjust VR401, VR402, VR403 and VR404 so that the audio level at the Line Outputs (CH1-CH4) is in the specification.

6-4. CUE PB Level Adj.

BOARD	RF/CUE
TP	LINE OUT (CH3)
ADJ.	VR413 [CUE PB]
INPUT	---
MODE	PLAY
TAPE	VFM3380KM (50M) VFM3580KM/KL (25M/ 0-14min.) VFM3783KML (HDSP/ 0-10min.)
M. EQ	Monitor TV, Oscilloscope, Audio Analyzer
SPEC.	AJ-HD1200AP/E : 0 dBu ± 1dB AJ-HD1200AMC : +4 dBu ± 1dB

1. Open the setup menu and select “(769) MONI SEL”, and then set the “PLYCUE”.
2. Select “(780) AUD OUT SEL” and then set the “CH1/2”.
3. Play back the 50M Alignment Tape.
4. Adjust VR413 so that the playback level at the Line Out CH3 is in the specification.
5. Play back the 25M and HDSP Alignment Tape, and make sure that the playback level is in the specification.

6-5. CUE Noise Cancel Adj. (HDSP Mode)

BOARD	RF/CUE
TP	LINE OUT (CH3)
ADJ.	VR4306 [C LV18] VR4301 [C PS18]
INPUT	---
MODE	PLAY
TAPE	VFM3783KML
M. EQ	Monitor TV, Oscilloscope, Audio Analyzer
SPEC.	AJ-HD1200AP/E : -40dBu or Less AJ-HD1200AMC : -36dBu or Less

<Audio Analyzer Setting>
Set the Audio Analyzer as shown below.
MEASURE: BANDPASS
BP/BR FREQ: 1200Hz
FILTER: OFF

1. Play back the portion after 10 unites of the Alignment Tape (VFM3783KML/ Without Cue Audio).
2. Adjust VR4306 and VR4301 alternately for 3-4 times to minimize the noise level.

6-6. CUE Noise Cancel Adj. (50M Mode)

BOARD	RF/CUE
TP	LINE OUT (CH3)
ADJ.	VR4305 [C LV9] VR4302 [C PS9]
INPUT	---
MODE	PLAY
TAPE	
M. EQ	
SPEC.	Less than -36dBu

<Audio Analyzer Setting>
Set the Audio Analyzer as shown below.
MEASURE: BANDPASS
BP/BR FREQ: 600Hz
FILTER: OFF

1. Create a 50M recorded tape without the CUE audio by any other DVCPRO50.
   And play back the recorded portion.
2. Adjust VR4305 and VR4302 alternately 3-4 times to minimize the noise level.

6-7. CUE Bias Current Adj.

BOARD	RF/CUE
TP	LINE OUT (CH3)
ADJ.	VR4001 [CUE BIAS]
INPUT	LINE IN (CH1, CH2), AJ-HD1200AP/E : 1KHz, 0 dBu AJ-HD1200AMC : 1KHz, +4 dBu
MODE	REC → PLAY
TAPE	Blank Tape
M. EQ	Audio Analyzer
SPEC.	Maximum Output of Self-Recording/Playback Within -0.5dB

<Audio Analyzer Setting>
Set the Audio Analyzer as shown below.
MEASURE: BANDPASS
BP/BR FREQ: 600Hz
FILTER: OFF

1. Set VR4001 fully CCW position.
2. Reset the front CTL counter to “0”.
3. Supply the above 1 KHz sine wave signal to the LINE IN CH1 and CH2.
4. Place the unit in the record mode and rotate VR4001 by 45 degrees for every fixed time at a time as shown the table below.

Rotation of VR4001	Recording Time (CTL Counter) [Example]
0° (Fully CCW)	00:00:00 - 00:30:00
45°	00:30:00 - 01:00:00
90°	01:00:00 - 01:30:00
135°	01:30:00 - 02:00:00
180°	02:00:00 - 02:30:00
225°	02:30:00 - 03:00:00
270°	03:00:00 - 03:30:00
315° (Fully CW)	03:30:00 – 04:00:00

5. Play back the portion just recorded and set VR4001 at the point where the Play back the portion recorded and set VR4001 as the point where the maximum CH3 output.
6. maximum CH3 output.

6-8. CUE REC/PB Level Adj.

BOARD	RF/CUE
TP	LINE OUT
ADJ.	VR4002 [REC CURR]
INPUT	LINE IN, AJ-HD1200AP/E : 1KHz, 0 dBu AJ-HD1200AMC : 1KHz, +4 dBu
MODE	REC → PLAY
TAPE	Blank Tape
M. EQ	Audio Analyzer
SPEC.	AJ-HD1200AP/E : 0 dBu ± 1 dB AJ-HD1200AMC : +4 dBu ± 1 dB

1. Open the Set-up menu and select “(730) REC CUE” and set “CH1+2”.
2. Supply the following signal to both CH1 and CH2 LINE IN.
   AJ-HD1200AP/E: 1 kHz, 0dBu ± 1dB
   AJ-HD1200AMC: 1 KHz, +4dBu ± 1dB
3. Confirm that the playback level is in the specification.
   If not, adjust VR4002 and repeat the steps 1-3 until the playback level is in the specification.

7. SGEN_SDI & UDC Boards (AJ-YA120AG)

Preparation

1. In order to perform the electrical adjustment for the optional SDI In/OUT Board (AJ-YA120AG), it should be installed in the Digital HD Video Cassette Player AJ-HD1200A.
2. Refer the Operation Instructions for more details of the installation.

7-1. NTSC 4fsc Adj.

BOARD	SGEN SDI / UDC
TP	TP300
ADJ.	VR305 [NTSC FREQ]
TAPE	---
INPUT	---
MODE	EE
M. EQ	Frequency Counter
SPEC.	14.318180MHz ± 500Hz

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	SDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Do not supply any signal to the SDREF input.
2. Connect the frequency counter to TP300 and adjust VR305 so that the frequency is in the specification.

7-2. HD 74MHz / 59.94HzAdj.

BOARD	SGEN SDI / UDC
TP	TP401
ADJ.	VR401 [HD FREQ59]
TAPE	---
INPUT	EE
MODE	---
M. EQ	Frequency Counter
SPEC.	74.175824MHz ± 500Hz

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	HDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Connect the frequency counter to TP401 and adjust VR401 so that the frequency is in the specification.

7-3. PAL 4fsc Adj.

BOARD	SGEN SDI / UDC
TP	TP300
ADJ.	VR304 [PAL FREQ]
TAPE	---
INPUT	---
MODE	EE
M. EQ	Frequency Counter
SPEC.	17.734475MHz ± 500Hz

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	SDREF

1. Connect the frequency counter to TP300 and adjust VR304 so that the frequency is in the specification.

7-4. HD 74.25MHz / 50Hz, 60.00Hz Adj.

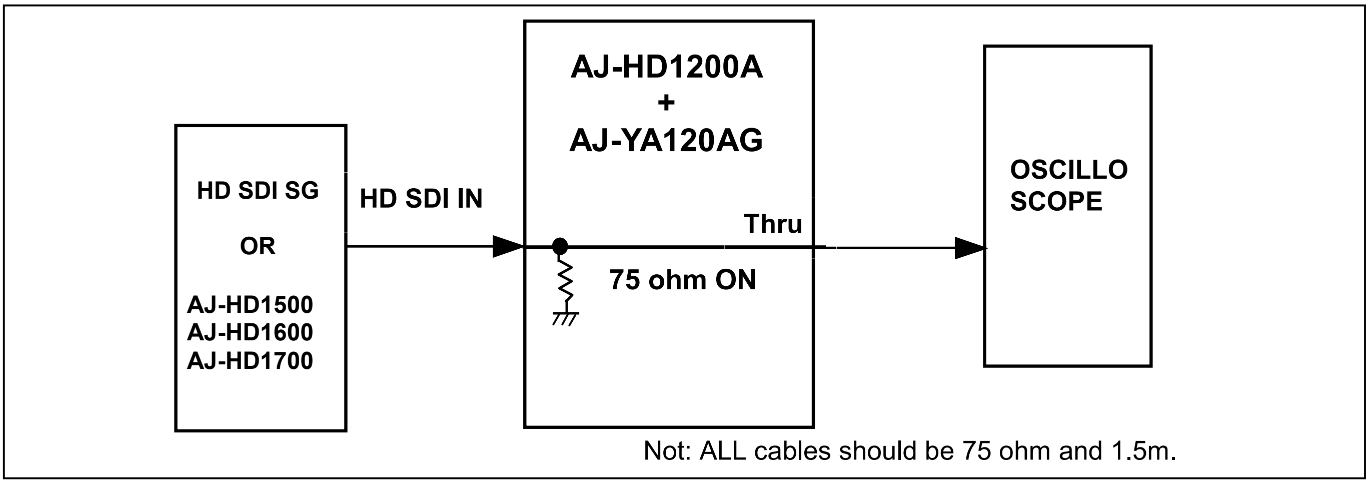
BOARD	SGEN SDI / UDC
TP	TP401
ADJ.	VR400 [HD FREQ60]
TAPE	---
INPUT	---
MODE	EE
M. EQ	Frequency Counter
SPEC.	74.250000MHz ± 500Hz

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	HDREF

1. Connect the frequency counter to TP400 and adjust VR400 so that the frequency is in the specification.

Adjustment System


HD SDI SG
OR
AJ-HD1500
AJ-HD1600
AJ-HD1700
HD SDI IN
AJ-HD1200A
+
AJ-YA120AG
Thru
75 ohm ON
OSCILLO
SCOPE

Not: ALL cables should be 75 ohm and 1.5m.

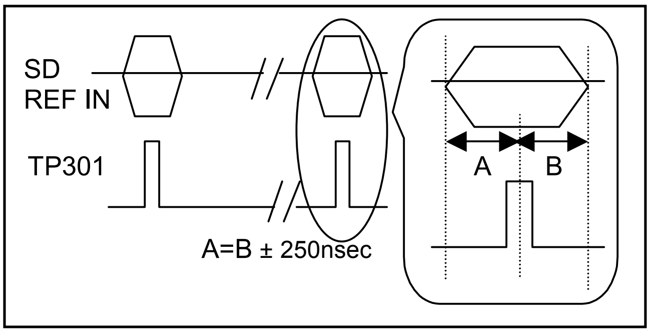
7-5. NTSC Burst Sampling Phase Adj.

BOARD	SGEN SDI / UDC
TP	SD REF IN Through OUT, TP301
ADJ.	VR302 [NTSC_S/H]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	Pulse at TP301=Center of Burst ± 250nsec (A=B ± 250nsec)

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	SDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Adjust VR302 so that the position of sampling pulse (TP301) is positioned at the center of the burst signal on the SD REF signal.


SD
REF IN
TP301
A=B ± 250nsec
A
B

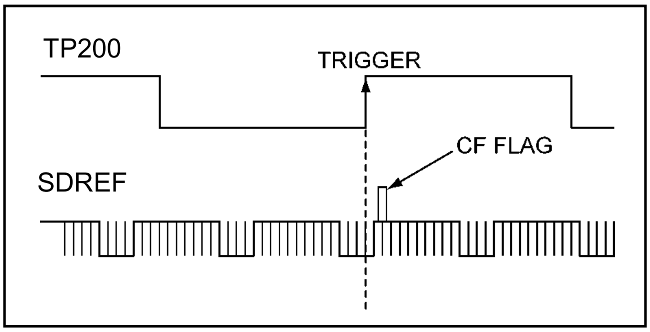
7-6. NTSC CF Phase (1) Adj.

BOARD	SGEN SDI / UDC
TP	TP200, SD REF IN Through OUT
ADJ.	VR300 [NTSC_CF]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	CF flag of SD REF input is coincided with leading edge of TP200

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	SDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Supply the same signal to the SD REF IN (thru out) to the oscilloscope.
2. Set VR300 at fully CCW position.
3. Slowly rotate VR300 CW and stop it when the CF flag on the SD REF meet the rising edge of TP200.


TP200
TRIGGER
CF FLAG
SDREF

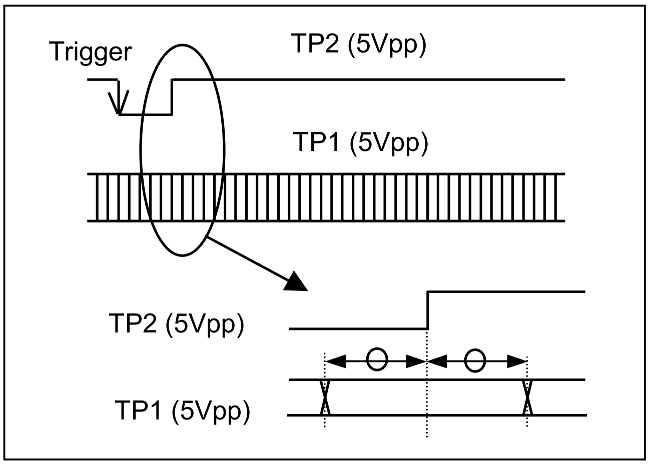
7-7. NTSC CF Phase (2) Adj.

BOARD	SGEN SDI / UDC
TP	TP1, TP2, TP200, HD REF IN Through
ADJ.	VR300 [NTSC_CF]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	Rising Edge of TP2=Center of pulse of TP1 (Center ± 5nsec)

<VTR Menu Setting>

SYSTEM FREQUENCY: 59/60
OUTREF: SDREF
HD FREQUENCY: 59/23
SYS FORMAT 1080i

1. Adjust VR300 so that the rising edge of TP2 is at the center of TP1.
2. After completion of step 1, confirm “7-6. NTSC CF Phase Adjustment (1)”.



<Note>

The oscilloscope should be observed in the CHOP mode.

Do not rotate VR300 too much, which may invert the phase of the CF pulse. If this is the case, repeat “7-6. NTSC CF Phase (1) Adj. and 7-7. NTSC CF Phase (2) Adj.”.

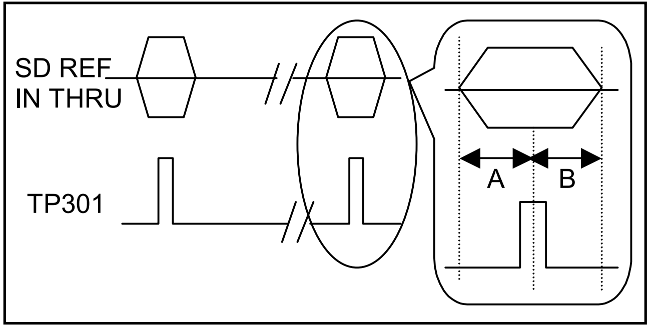
7-8. PAL Bust Sampling Phase Adj.

BOARD	SGEN SDI / UDC
TP	TP301
ADJ.	VR303 [PAL_S/H]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	Pulse at TP301=Center of Burst ± 250nsec (A = B ± 250nsec)

<VTR Menu Setting>

SYSTEM FREQUENCY: 50
OUTREF: SDREF

1. Adjust VR303 so that the position of sampling pulse (TP301) is at the center of the burst signal on the SD REF signal.



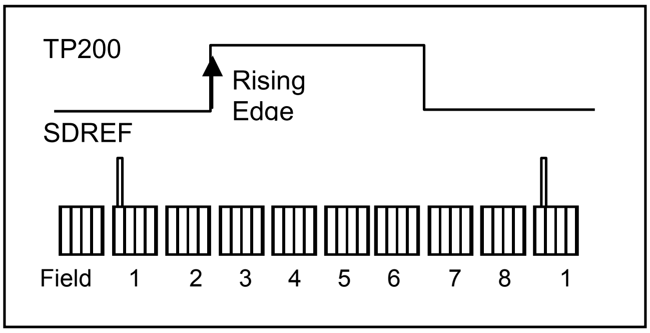
7-9. PAL CF Phase (1) Adj.

BOARD	SGEN SDI / UDC
TP	TP200, SD REF IN Through
ADJ.	VR301 [PAL_CF]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	Rising Edge of TP200 = 3rd Field of SD REF

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	SDREF

1. Supply the same signal to the SD REF IN (thru out) to the oscilloscope.
2. Set VR301 at fully CCW position.
3. Slowly rotate VR301 CW and stop it when the 3rd field of on the SD REF meets the rising edge of TP200.



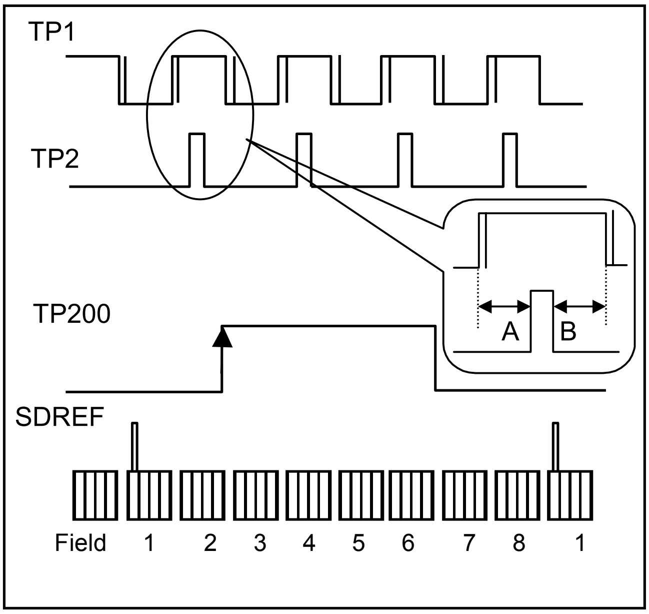
7-10. PAL CF Phase (2) Adj.

BOARD	SGEN SDI / UDC
TP	TP1, TP2, TP200, SD REF IN Through
ADJ.	VR301 [PAL_CF]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	· A = B ± 2msec. · Rising Edge of TP200 =: 3rd Field of SD REF SD REF

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	SDREF

1. Adjust VR301 so that the rising edge of TP2 is at the center of TP1.
2. Repeat “7-9. PAL CF Phase (1) Adj. and 7-10. PAL CF Phase (2) Adj.”



8. 1394 IF Boards (AJ-YAD120AG)

Preparation

1. In order to perform the electrical adjustment for the optional 1394 IF Board (AJ-YAD120AG), it should be installed in the Digital HD Video Cassette Player AJ-HD1200A.
2. Refer the Operation Instructions for more details of the installation.

8-1. PLL Adj.

BOARD	1394 IF
TP	TP671
ADJ.	VC670
TAPE	---
INPUT	---
MODE	EJECT
M. EQ	Digital Volt Meter
SPEC.	1.5V ± 0.1V

1. Do not connect an IEEE1394 cable to the Board.
2. Adjust VC670 so that the voltage is in the specification.

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

ELECTRICAL REPLACEMENT PARTS LIST

For AJ-HD1200AP

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83624B	REC PB P.C.BOARD	1	(RTL)
■ E2	VEP83625B	V OUT SYS P.C.BOARD	1	(RTL)
■ E4	VEP85214B	RF/EQ P.C.BOARD	1	(RTL)
■ E5	VEP85215A	RF/CUE P.C.BOARD	1	(RTL)
■ E6	VEP84393B	APROC P.C.BOARD	1	(RTL)
■ E7	VEP84368B	A I/O P.C.BOARD	1	(RTL)
■ E9	VEP82250A	MECHA I/F P.C.BOARD	1	(RTL)
■ E10	VEP81203D	POWER 1 P.C.BOARD	1	(RTL)
■	VEP81233A	SUB POWER 1 P.C.BOARD	1	(RTL)FOR VEP81203D
■ E11	VEP81219B	POWER 2 P.C.BOARD	1	(RTL)
■ E12	VEP81232B	POWER 3 P.C.BOARD	1	(RTL)
■ E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	(RTL)
■ E14	VEP80C73B	MOTHER P.C.BOARD	1	(RTL)
■ E15	VEP86343A	FRONT P.C.BOARD	1	(RTL)
■ E16	VEP83626A	V JACK P.C.BOARD	1	(RTL)
■ E17	VEP84394B	A JACK P.C.BOARD	1	(RTL)
■ E18	VEP86344A	KEY P.C.BOARD	1	(RTL)
■ E19	VEP86346A	REC VR P.C.BOARD	1	(RTL)
■ E20	VEP86347A	PB VR P.C.BOARD	1	(RTL)
■ E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	(RTL)
■ E22	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
■ E23	VEP82249B	SERVO P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83624B	REC PB P.C.BOARD	1	(RTL)
C1,C2	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C3,C4	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C5,C6	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C7,C8	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C9,10	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	F1H1H102A009
C11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C12	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C13	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C14-17	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	4	
C18-26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C27-31	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	5	
C50-73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	24	
C100-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	15	
C150-65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C166,67	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C168,69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C170	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C171	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C172	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C173	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C174	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C175-84	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C200	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C201	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C202	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C203-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C250,51	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C252	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C253,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C255	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C256	ECUX1C184KBN	C.CAPACITOR CH 16V 0.18U	1	
C257-69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	13	
C290	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C300,01	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C302-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C370-73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C374	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C375,76	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C377	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C378	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C379	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C380-92	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	13	
C450	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C452	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C457-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C500-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	11	
C511	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C550	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C551	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C552-57	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C558	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C559	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C561-81	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	21	
C650,51	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C652	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C653	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C654-58	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C659	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C660,61	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C662,63	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C664,65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C670	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D150,51	MA3J14300L	DIODE	2	
D650	LN1271RAL	DIODE	1	
FL500,01	EZAST33AAAJ	FILTER	2	
IC1,C2	C0CBABD00005	IC	2	
IC3	DS90CR217MTD	IC	1	C0ZBZ0000466

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4	DS90CR218MTD	IC	1	C0ZBZ0000468
IC5	C0CBAAD00023	IC	1	
IC50,51	C3HBKG000002	IC	2	
IC52	C3HBKZ000001	IC	1	
IC53	C1ZBZ0002371	IC	1	
IC100	C1AB00001751	IC	1	
IC101,02	C3HBKZ000001	IC	2	
IC150	MB87J1460	IC	1	C1AB00001232
IC151,52	C3ABQG000045	IC	2	
IC153	C0JBAZ000279	IC	1	
IC154	C0CBBDB00004	IC	1	
IC155	C0CBADD00003	IC	1	
IC156	C0ABEB000017	IC	1	
IC157,58	C0JBAZ001958	IC	2	
IC200	L7A1644	IC	1	C1AA00000231
IC201,02	MN47V07AF	IC	2	
IC250,51	MN673797A	IC	2	
IC252	BH7086KV	IC	1	C1ZBZ0001649
IC253	C0JBAB000422	IC	1	
IC254	C0JBAB000350	IC	1	
IC300	C1ZBZ0002371	IC	1	
IC370	C0CBABD00005	IC	1	
IC371	C3ABRG000011	IC	1	
IC372	H1ZYYYYB0004	IC	1	
IC373	C1AB00001590	IC	1	
IC450	C1ZBZ0002212	IC	1	
IC500	C1AB00001589	IC	1	
IC550	C0CBABD00005	IC	1	
IC551	C1ZBZ0002212	IC	1	
IC552	DS90LV047AC	IC	1	
IC553,54	DS90LV048AC	IC	2	
IC555	XC62FP3202P	IC	1	
IC556	C0CBABD00005	IC	1	
IC557	C0JBAZ002080	IC	1	
IC558-60	DS90LV048AC	IC	3	
IC561	DS90LV047AC	IC	1	
IC562	C0JBAZ001958	IC	1	
IC652	C2DBML000004	IC	1	
IC660	C3FBLD000046	IC	1	
ID0	VVVSI4279B	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4284D	SOFTWARE	1	DOWNLOAD ONLY
ID2	VVVSI4285B	SOFTWARE	1	DOWNLOAD ONLY
ID3	VVVSI4233A	SOFTWARE	1	DOWNLOAD ONLY
L1-L6	VLP0183	COIL	6	J0JKC0000007
L250	VLQ0319K150	COIL 15UH	1	G1C150KA0002
L650,51	VLQ0163J470	COIL 47UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	K1KA08B00147	CONNECTOR (FEMALE)	1	
P300	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A00020
P650	K1KA10A00303	CONNECTOR (MALE)	1	
P651	VJS3791B020	CONNECTOR (FEMALE)	1	
QR650	UNR521300L	TRANSISTOR	1	
R1-R4	ERJ3RBD101	M.RESISTOR CH 1/16W 100	4	
R5,R6	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R7	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R8	EXBV8V102J	COMBI.R-R 1K	1	
R14	EXBV8V101J	COMBI.R-R 100	1	
R50-52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R53	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R54-61	D1H833040002	COMBI.R-R 33	8	
R62,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R64	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R66	D1H833040002	COMBI.R-R 33	1	
R67	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R68,69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R71-73	D1H833040002	COMBI.R-R 33	3	
R76	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R77-82	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	6	
R84-86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R87-89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R90-93	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R100,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R104-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R110-15	D1H833040002	COMBI.R-R 33	6	
R116,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R150	D1H833040002	COMBI.R-R 33	1	
R151-55	EXBV8V102J	COMBI.R-R 1K	5	
R156,57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R158,59	D1H833040002	COMBI.R-R 33	2	
R160	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R161	D1H833040002	COMBI.R-R 33	1	
R162,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R164,65	EXBV8V101J	COMBI.R-R 100	2	
R166	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R167	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R168	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R169	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R170-72	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R173	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R174	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R175,76	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R177	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R178,79	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R180	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R181	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R182	VLP0173	COIL	1	J0JGC0000015
R183-86	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R200	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R201	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R202,03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R204	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R205	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R206	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R207,08	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R209,10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R211	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R212	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R213	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R215	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R250,51	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R252-55	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R256	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R257	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R258	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R259	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R260	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R261	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R262	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R263	D1H833040002	COMBI.R-R 33	1	
R264	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R265	D1H833040002	COMBI.R-R 33	1	
R267	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R268	D1H833040002	COMBI.R-R 33	1	
R269,70	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R271,72	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R273,74	D1H833040002	COMBI.R-R 33	2	
R275,76	EXBV8V101J	COMBI.R-R 100	2	
R277-81	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	D0GB103JA002
R282,83	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R284	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R285	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R286,87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R288,89	D1H833040002	COMBI.R-R 33	2	
R290,91	EXBV8V101J	COMBI.R-R 100	2	
R292	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R293-96	EXBV8V102J	COMBI.R-R 1K	4	
R300	EXBV8V101J	COMBI.R-R 100	1	
R301,02	D1H833040002	COMBI.R-R 33	2	
R303	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R304,05	D1H833040002	COMBI.R-R 33	2	
R306	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R307	EXBV8V101J	COMBI.R-R 100	1	
R308,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R310,11	D1H833040002	COMBI.R-R 33	2	
R328-32	D1H833040002	COMBI.R-R 33	5	
R333	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R334-37	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R338-41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R354-57	D1H833040002	COMBI.R-R 33	4	
R358	EXBV8V102J	COMBI.R-R 1K	1	
R359-62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R363-65	D1H833040002	COMBI.R-R 33	3	
R366-69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R370	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R371	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R372	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R373-75	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R376	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R377,78	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R381	EXBV8V473J	COMBI.R-R 47K	1	
R382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R383	EXBV8V101J	COMBI.R-R 100	1	
R384	EXBV8V473J	COMBI.R-R 47K	1	
R385	EXBV8V102J	COMBI.R-R 1K	1	
R386	EXBV8V473J	COMBI.R-R 47K	1	
R387	EXBV8V102J	COMBI.R-R 1K	1	
R388	EXBV8V473J	COMBI.R-R 47K	1	
R389	EXBV8V102J	COMBI.R-R 1K	1	
R390	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R391,92	D1H833040002	COMBI.R-R 33	2	
R393	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R394	EXBV8V101J	COMBI.R-R 100	1	
R396-00	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	5	
R401-04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R405	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R406	EXBV8V102J	COMBI.R-R 1K	1	
R407-11	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	5	
R412-15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R416-21	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	6	
R422-25	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R426	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R428,29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R452	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R500	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R501,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R503	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R554	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R555,56	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R558,59	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R562,63	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R566	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R567	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R569	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R571	VLP0173	COIL	1	J0JGC0000015
R575	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R577-79	D1H833040002	COMBI.R-R 33	3	
R580-89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	10	
R590,91	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R592-01	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	10	
R603,04	D1H833040002	COMBI.R-R 33	2	
R608	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R611	VLP0173	COIL	1	J0JGC0000015
R612	EXBV8V102J	COMBI.R-R 1K	1	
R613,14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R615,16	D1H833040002	COMBI.R-R 33	2	
R617	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R618	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R619	D1H833040002	COMBI.R-R 33	1	
R620,21	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R622,23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R624	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R625	D1H833040002	COMBI.R-R 33	1	
R626	EXBV8V102J	COMBI.R-R 1K	1	
R627	D1H833040002	COMBI.R-R 33	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R628-30	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R631	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R634,35	D1H833040002	COMBI.R-R 33	2	
R636,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R640	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R641	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R650	EXBV8V102J	COMBI.R-R 1K	1	
R651	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R652	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R653	D1H833040002	COMBI.R-R 33	1	
R654	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R655	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R656	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R657	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R658	D1H833040002	COMBI.R-R 33	1	
R659	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R660,61	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R662	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R663	D1H833040002	COMBI.R-R 33	1	
R664	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R665	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R666	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R667	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R668	D1H833040002	COMBI.R-R 33	1	
R670	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R671	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R672,73	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R674	EXBV8V102J	COMBI.R-R 1K	1	
R676	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R678,79	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R680	EXBV8V473J	COMBI.R-R 47K	1	
R681,82	D1H833040002	COMBI.R-R 33	2	
R684	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
TG1-G7	EYF6CU	TEST POINT	7	
TP50,51	EYF6CU	TEST POINT	2	
TP250,51	EYF6CU	TEST POINT	2	
TP302	EYF6CU	TEST POINT	1	
TP304	EYF6CU	TEST POINT	1	
TP370,71	EYF6CU	TEST POINT	2	
TP378	EYF6CU	TEST POINT	1	
TP381	EYF6CU	TEST POINT	1	
TP450	EYF6CU	TEST POINT	1	
TP507,08	EYF6CU	TEST POINT	2	
X150	VSX0907	CRYSTAL OSCILLATOR	1	H4G1805A0003
X550	H1A3715B0001	CRYSTAL OSCILLATOR	1	
X551	H1A3705B0001	CRYSTAL OSCILLATOR	1	
X650	H0J921400004	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E2	VEP83625B	V OUT SYS P.C.BOARD	1	(RTL)
C1-C5	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C6-13	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	8	
C30,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C32	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C33	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C34	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C35-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	19	
C54	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C55,56	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C57	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C150,51	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C152-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C155,56	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C157-68	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C230-47	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	18	
C300-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C304,05	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C306-08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C309	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C310	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C311-19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C320-22	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	3	
C327	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C329	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C331	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C332-40	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C341-43	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	3	
C344-46	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C347-51	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	5	
C352-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C355	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C356	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C357	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C358	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C359	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C360	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C361	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C362	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C363	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C364,65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C430,31	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C432,33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C434	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C435-39	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C440	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C441	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C442	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C443	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C444	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C445	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
C446	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
C447	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C449	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C450-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C454	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C500,01	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C502,03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C504	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C506,07	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C508	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C509,10	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C511	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C512	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C513,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C515	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C518	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C519	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C520,21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C522,23	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C524-31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C535	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C600-02	VCK0152	C.CAPACITOR CH 16V 10U	3	F1L1C1060016
C603-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C607	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C608-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C615	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C616	VCK0152	C.CAPACITOR CH 16V 10U	1	F1L1C1060016
C617-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C621	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C622	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	F1J1H561A025
C623	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C624	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C625	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C626	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C627	VCK0152	C.CAPACITOR CH 16V 10U	1	F1L1C1060016
C628	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C629	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C630-33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C634	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C635	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D430	MA142K	DIODE	1	
D500-03	MA3J14300L	DIODE	4	
D505-07	MA3J14300L	DIODE	3	
D508	LN1271RAL	DIODE	1	
D509	MA3J14300L	DIODE	1	
D600-05	MA3J14300L	DIODE	6	
FL300-02	J0E3005B0002	FILTER	3	
FL430	VLF1354	FILTER	1	
IC30	C1ZBZ0002319	IC	1	
IC31	IDTLVC16245F	IC	1	
IC33	IDTLVC16245F	IC	1	
IC36	C0JBAZ001880	IC	1	
IC37	C0CBABD00005	IC	1	
IC38	DS90CR218MTD	IC	1	C0ZBZ0000468
IC39	DS90LV048AC	IC	1	
IC40,41	C3ABQG000045	IC	2	
IC42	C0JBAZ001880	IC	1	
IC45	C3ABQG000045	IC	1	
IC150	C1ZBZ0002432	IC	1	
IC154	DS90CR217MTD	IC	1	C0ZBZ0000466
IC230	C1ZBZ0002432	IC	1	
IC232,33	C3ABRG000011	IC	2	
IC236	C1AB00001228	IC	1	
IC300,01	C0CBAAD00023	IC	2	
IC302	C1AB00001858	IC	1	
IC303-05	AD8055AR	IC	3	C0ABGB000013
IC306	LT1129CS8	IC	1	
IC307	LT1175CS8	IC	1	
IC308,09	TC7W53FU	IC	2	
IC310	ADV7128KR80	IC	1	
IC311	AD589JR	IC	1	
IC312	LT1129CS8	IC	1	
IC313	AD8184AR	IC	1	
IC430	C0JBAA000175	IC	1	
IC431	ADV7128KR80	IC	1	
IC432	AD589JR	IC	1	
IC433	AD8055AR	IC	1	C0ABGB000013
IC434	NJM2534V	IC	1	
IC500	C2DBML000004	IC	1	
IC501	C0EBE0000213	IC	1	
IC502	C0JBAA000174	IC	1	
IC503	C0JBAZ000851	IC	1	
IC504	C0JBAB000350	IC	1	
IC600	C3FBMD000050	IC	1	
IC601	TA75W558FU	IC	1	C0ABBA000042
IC602	C0JBAZ001713	IC	1	
IC604,05	TC7WH125FU	IC	2	
IC606	C0BBBB000006	IC	1	
IC610	C0CBADD00003	IC	1	
IC611	C1AB00000936	IC	1	
IC613	TC7WH125FU	IC	1	
IC614	C0JBAZ001121	IC	1	
IC617	TC7WH125FU	IC	1	
IC619	C0JBAZ001121	IC	1	
IC621	NJM2068MD	IC	1	C0ABBB000031
IC623	C0CBADD00003	IC	1	
IC628	SN75C1168NS	IC	1	
IC629	XC62DN5002M	IC	1	
ID0	VVVSI4280B	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4286D	SOFTWARE	1	DOWNLOAD ONLY
ID2	VVVSI4233A	SOFTWARE	1	DOWNLOAD ONLY
L1-L5	VLP0183	COIL	5	J0JKC0000007

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L311-14	VLQ0319K1R0	COIL 1.0UH	4	
L430	VLQ0163J180	COIL 18UH	1	G1C180J00001
L431	VLQ0163J120	COIL 12UH	1	G1C120J00001
L500,01	VLQ0163J470	COIL 47UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P150	VJS4064N160E	CONNECTOR (FEMALE)	1	K1KAG0A00006
P500	K1KA10A00303	CONNECTOR (MALE)	1	
P501	VJS3791B020	CONNECTOR (FEMALE)	1	
Q300-02	2SA1532-B	TRANSISTOR	3	
Q303-05	2SD601A-R	TRANSISTOR	3	
Q306-08	XN4501	TRANSISTOR-RESISTOR	3	
Q430	2SA1532-B	TRANSISTOR	1	
Q431	2SD601A-R	TRANSISTOR	1	
Q432	XN4501	TRANSISTOR-RESISTOR	1	
Q433-36	2SA1532-B	TRANSISTOR	4	
Q437	2SD601A-R	TRANSISTOR	1	
QR500-03	UNR521300L	TRANSISTOR	4	
R1	EXBV8V102J	COMBI.R-R 1K	1	
R30-35	D1H833040002	COMBI.R-R 33	6	
R36-46	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	11	
R47,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R49,50	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R52-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R57	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R59,60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R62,63	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R64	D1H833040002	COMBI.R-R 33	1	
R65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R66,67	D1H833040002	COMBI.R-R 33	2	
R68	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R69-72	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R73-76	D1H833040002	COMBI.R-R 33	4	
R77	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R78,79	D1H833040002	COMBI.R-R 33	2	
R80,81	EXBV8V102J	COMBI.R-R 1K	2	
R82	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R83,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R85,86	D1H833040002	COMBI.R-R 33	2	
R87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R90-93	ERJ3RBD101	M.RESISTOR CH 1/16W 100	4	
R94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R95,96	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R99	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R100	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R101,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R103,04	D1H833040002	COMBI.R-R 33	2	
R106-09	D1H833040002	COMBI.R-R 33	4	
R110	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R111	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R113	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R114	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R120	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R150-52	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R153	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R154-56	D1H833040002	COMBI.R-R 33	3	
R157,58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R159-63	D1H833040002	COMBI.R-R 33	5	
R164	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R165-69	D1H833040002	COMBI.R-R 33	5	
R170	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R171	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R177-79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R185,86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R187	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R188	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R190-92	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R193	D1H833040002	COMBI.R-R 33	1	
R230-32	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R233	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R234,35	D1H833040002	COMBI.R-R 33	2	
R236	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R237,38	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R239,40	D1H833040002	COMBI.R-R 33	2	
R241,42	EXBV8V102J	COMBI.R-R 1K	2	
R243-47	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R248,49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R250	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R251	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R252	D1H833040002	COMBI.R-R 33	1	
R253-57	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R258	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R300	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R301-04	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R306,07	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R310,11	ERJ3RBD331	M.RESISTOR CH 1/16W 330	2	
R312	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R313,14	ERJ3RED100	M.RESISTOR CH 1/16W 10	2	
R315-17	ERJ3RBD301	M.RESISTOR CH 1/16W 300	3	
R321-23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R324-26	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R327	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R328,29	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R330	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R331	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R332	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R333	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R334	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R335-38	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	4	
R339-41	ERJ3RBD241	M.RESISTOR CH 1/16W 240	3	
R342-44	ERJ3RED910	M.RESISTOR CH 1/16W 91	3	
R345	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R347	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R349	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R351	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R352	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R353	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R354	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R355	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R356	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R357	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R358	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R359	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R360-62	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	3	
R375-77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R378,79	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	2	
R380	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R382	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R383	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R384	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R385	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R386	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R387	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R430,31	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R432	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R433	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R434	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R435	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R436,37	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R438	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R439	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R440	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R441	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R442	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R443	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R444	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R445	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R446	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R447	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R448	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R449	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R450	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R451	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R454	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R457,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R459	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R460	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R461	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R462,63	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R464	ERJ3RED300	M.RESISTOR CH 1/16W 30	1	
R465	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R466	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R468	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R469	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R470	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R500	D0GZ103J0001	M.RESISTOR CH 10K	1	
R501	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R502	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R503	D1H833040002	COMBI.R-R 33	1	
R504	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R505	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R506-11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R513	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R515	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R516	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R517	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R518	D1H833040002	COMBI.R-R 33	1	
R519-22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R524	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R525	D0GZ103J0001	M.RESISTOR CH 10K	1	
R526	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R527	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R528	D1H833040002	COMBI.R-R 33	1	
R529	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R530,31	D1H833040002	COMBI.R-R 33	2	
R532	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R533	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R534,35	D1H833040002	COMBI.R-R 33	2	
R537	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R538	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R539	D1H833040002	COMBI.R-R 33	1	
R543-47	D1H833040002	COMBI.R-R 33	5	
R548,49	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R550	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R551	EXBV8V102J	COMBI.R-R 1K	1	
R552	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R553-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R559,60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R561	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R562	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R563	EXBV8V473J	COMBI.R-R 47K	1	
R564	D1H833040002	COMBI.R-R 33	1	
R565	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R566	D1H833040002	COMBI.R-R 33	1	
R567	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R568	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R569	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R570	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R571,72	D0GZ103J0001	M.RESISTOR CH 10K	2	
R573	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R600	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R601	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R602	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R603	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R604	EXBV8V473J	COMBI.R-R 47K	1	
R605	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R606	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R607	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609,10	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R611	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R612,13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R614	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R615	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R616	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R617	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R618,19	EXBV8V473J	COMBI.R-R 47K	2	
R621	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R622	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R623	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R625	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R626	D1H833040002	COMBI.R-R 33	1	
R627	EXBV8V473J	COMBI.R-R 47K	1	
R628	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R629,30	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R632	D1H833040002	COMBI.R-R 33	1	
R633	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R634	EXBV8V473J	COMBI.R-R 47K	1	
R635,36	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R637	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R638	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R639	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R640	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R641	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R642	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R643	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R644	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R645	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R646	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R647	D1H833040002	COMBI.R-R 33	1	
R648	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R649	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R650	EXBV8V102J	COMBI.R-R 1K	1	
R651	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R652	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R653	EXBV8V473J	COMBI.R-R 47K	1	
R654	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R655	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R656-59	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R660-62	D1H833040002	COMBI.R-R 33	3	
R663,64	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
RY1	VSY2176	RELAY	1	K6B2CDA00045
SW1	VSS0367-02B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
VR300-07	EVM7JGA00B13	V.RESISTOR 1K	8	
VR430,31	EVM7JGA00B13	V.RESISTOR 1K	2	
X500	H0J921400004	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E4	VEP85214B	RF/EQ P.C.BOARD	1	(RTL)
C1-C4	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C6	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C7	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C8-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C101,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C103-06	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C108	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C110-22	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	13	
C123-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C201,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C205-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C211,12	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C213,14	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	2	
C215	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C301-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C311	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C312,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C315-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C319	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C320	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C321	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C322	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C323	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C324	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C325	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C326-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C351,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C353	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C354	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C355	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C356	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C359	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C361-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C401-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C411	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C412,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C415-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C419	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C420	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C421	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C422	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C423	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C424	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C425	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C426-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C451,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C453	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C454	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C455	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C456	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C459	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C461-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C501-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C511	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C512,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C515-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C519	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C520	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C521	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C522	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C523	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C524	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C525	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C527-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C551-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C561	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C562,63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C565-68	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C569	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C570	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C571	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C572	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C573	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C574	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C575	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C577-80	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C601-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C611	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C612,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C615-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C619	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C620	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C621	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C622	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C623	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C624	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C625	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C627-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C701	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C702	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C703-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C708-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C711	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C731	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C732	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C733-36	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C738-40	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C741	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C761	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C762	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C763-66	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C768-70	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C771	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C801	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C802	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C803-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C806	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C807-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C819	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C820-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C826	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C827-31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C834,35	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C836	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C837,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C901	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C902	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C903-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C906	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C907-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C919	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C920-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C926	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C928	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C930,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C935	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C937,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C939,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C941,42	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1001	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1002	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1003-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1006	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1007-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C1019	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1020-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C1026	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1028	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1030,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1035	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1037,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1101	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1102	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1103-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1106	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1107-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C1119	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1120-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1126	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1128	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1130,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1135	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1137,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1139,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1201	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1202	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1203-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1206	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1207-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1219	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1220-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C1226	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1228	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1230,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1235	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1237,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1239,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1301-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C1311-13	F1L1A2260013	C.CAPACITOR CH 10V 22U	3	
C1314	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C1315	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
C1317-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1321	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
C1323,24	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C1325	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1327-29	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1330	EEFCD0J330R	E.CAPACITOR 6.3V 33U	1	
C1331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D1	MA3J14300L	DIODE	1	
D301	MA3S132E0L	DIODE	1	
D401	MA3S132E0L	DIODE	1	
D501	MA3S132E0L	DIODE	1	
D551	MA3S132E0L	DIODE	1	
D601	MA3S132E0L	DIODE	1	
D1301	MA142K	DIODE	1	
D1302	MA29W-A	DIODE	1	MA2C029WA
IC1	C0JBAA000102	IC	1	
IC2	C0JBAZ000525	IC	1	
IC3	TVHC244FT	IC	1	
IC4,C5	TVHC164FT	IC	2	
IC6	TVHC126FT	IC	1	
IC7	TC74VHC32F	IC	1	C0JBAE000081
IC8	C0JBAB000196	IC	1	
IC9	TVHC00FT	IC	1	
IC101,02	C0JBAS000075	IC	2	
IC103	C0ABEB000023	IC	1	
IC104	M62370GP	IC	1	C0FBBD000082
IC105-07	C0ABFB000012	IC	3	
IC201	TVHC126FT	IC	1	
IC202	DS90LV048AC	IC	1	
IC203	TLCX04F	IC	1	
IC204	C0JBAF000224	IC	1	
IC206	DS90LV047AC	IC	1	
IC301	NJM1496V	IC	1	
IC302	UPC1663GV	IC	1	C0ABAB000078
IC303	C0JBAS000075	IC	1	
IC351	UPC1663GV	IC	1	C0ABAB000078
IC401	NJM1496V	IC	1	
IC402	UPC1663GV	IC	1	C0ABAB000078
IC403	C0JBAS000075	IC	1	
IC451	UPC1663GV	IC	1	C0ABAB000078
IC501	NJM1496V	IC	1	
IC502	UPC1663GV	IC	1	C0ABAB000078
IC551	NJM1496V	IC	1	
IC552	UPC1663GV	IC	1	C0ABAB000078
IC601	NJM1496V	IC	1	
IC602	UPC1663GV	IC	1	C0ABAB000078
IC701	UPC1663GV	IC	1	C0ABAB000078
IC731	UPC1663GV	IC	1	C0ABAB000078
IC761	UPC1663GV	IC	1	C0ABAB000078
IC801	MN673798	IC	1	
IC802	C0ABBB000158	IC	1	
IC803	DS90LV047AC	IC	1	
IC804	C0JBAF000315	IC	1	
IC805,06	C0JBAZ000852	IC	2	
IC901	MN673798	IC	1	
IC902	C0ABBB000158	IC	1	
IC904	C0ABFB000012	IC	1	
IC1001	MN673798	IC	1	
IC1002	C0ABBB000158	IC	1	
IC1003	DS90LV047AC	IC	1	
IC1101	MN673798	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1102	C0ABBB000158	IC	1	
IC1201	MN673798	IC	1	
IC1202	C0ABBB000158	IC	1	
IC1203	DS90LV047AC	IC	1	
IC1301	LT1175CS8	IC	1	
IC1303	LT1086CM	IC	1	C0CBAYG00001
IC1304,05	C0CBADD00003	IC	2	
L301	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L302	VLQ0163JR68	COIL 0.68UH	1	G1CR68J00004
L351	VLQ0163J8R2	COIL 8.2UH	1	
L352	VLQ0163J2R2	COIL 2.2UH	1	G1C2R2J00009
L353	VLQ0163J1R5	COIL 1.5UH	1	
L354	VLQ077168NM	COIL	1	
L401	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L402	VLQ0163JR68	COIL 0.68UH	1	G1CR68J00004
L451	VLQ0163J8R2	COIL 8.2UH	1	
L452	VLQ0163J2R2	COIL 2.2UH	1	G1C2R2J00009
L453	VLQ0163J1R5	COIL 1.5UH	1	
L454	VLQ077168NM	COIL	1	
L501	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L502	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L551	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L552	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L601	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L602	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L701	VLQ0163J5R6	COIL 5.6UH	1	
L731	VLQ0163J5R6	COIL 5.6UH	1	
L761	VLQ0163J5R6	COIL 5.6UH	1	
L1301-05	VLP0183	COIL	5	J0JKC0000007
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	VJS3791B020	CONNECTOR (FEMALE)	1	
P4	K1KA08B00147	CONNECTOR (FEMALE)	1	
Q1	2SB1218A0L	TRANSISTOR	1	
Q2	2SD1819A-R	TRANSISTOR	1	
Q3	XP0431200L	TRANSISTOR	1	
Q201,02	2SC3930	TRANSISTOR	2	
Q203,04	2SD601A	TRANSISTOR	2	
Q205,06	2SB1218A0L	TRANSISTOR	2	
Q301	XP6534	TRANSISTOR-RESISTOR	1	
Q302	2SC3930	TRANSISTOR	1	
Q303	XP6501	TRANSISTOR-RESISTOR	1	
Q304,05	2SD1979	TRANSISTOR	2	
Q306,07	2SC3930	TRANSISTOR	2	
Q351	XP6534	TRANSISTOR-RESISTOR	1	
Q401	XP6534	TRANSISTOR-RESISTOR	1	
Q402	2SC3930	TRANSISTOR	1	
Q403	XP6501	TRANSISTOR-RESISTOR	1	
Q404,05	2SD1979	TRANSISTOR	2	
Q406,07	2SC3930	TRANSISTOR	2	
Q451	XP6534	TRANSISTOR-RESISTOR	1	
Q501	XP6534	TRANSISTOR-RESISTOR	1	
Q502	2SC3930	TRANSISTOR	1	
Q503	XP6501	TRANSISTOR-RESISTOR	1	
Q504,05	2SD1979	TRANSISTOR	2	
Q506,07	2SC3930	TRANSISTOR	2	
Q551	XP6534	TRANSISTOR-RESISTOR	1	
Q552	2SC3930	TRANSISTOR	1	
Q553	XP6501	TRANSISTOR-RESISTOR	1	
Q554,55	2SD1979	TRANSISTOR	2	
Q556,57	2SC3930	TRANSISTOR	2	
Q601	XP6534	TRANSISTOR-RESISTOR	1	
Q602	2SC3930	TRANSISTOR	1	
Q603	XP6501	TRANSISTOR-RESISTOR	1	
Q604,05	2SD1979	TRANSISTOR	2	
Q606,07	2SC3930	TRANSISTOR	2	
Q701	2SC3930	TRANSISTOR	1	
Q702	2SA153200L	TRANSISTOR	1	
Q703	2SD1979	TRANSISTOR	1	
Q731	2SC3930	TRANSISTOR	1	
Q732	2SA153200L	TRANSISTOR	1	
Q733	2SD1979	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q761	2SC3930	TRANSISTOR	1	
Q762	2SA153200L	TRANSISTOR	1	
Q763	2SD1979	TRANSISTOR	1	
Q801	XP0450100L	TRANSISTOR	1	
Q802	2SD1819A-R	TRANSISTOR	1	
Q803	2SB1218A0L	TRANSISTOR	1	
Q901	XP0450100L	TRANSISTOR	1	
Q1001	XP0450100L	TRANSISTOR	1	
Q1101	XP0450100L	TRANSISTOR	1	
Q1201	XP0450100L	TRANSISTOR	1	
Q1301-03	2SB710A	TRANSISTOR	3	
Q1304-06	2SD602A-R	TRANSISTOR	3	
Q1307	2SD601A	TRANSISTOR	1	
QR351,52	UN5212	TRANSISTOR-RESISTOR	2	
QR1302-04	UNR511100L	TRANSISTOR	3	
QR1305-07	UNR521100L	TRANSISTOR	3	
QR1308-10	UNR511100L	TRANSISTOR	3	
R1-R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4,R5	EXBV8V473J	COMBI.R-R 47K	2	
R6	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R7,R8	EXBV8V101J	COMBI.R-R 100	2	
R9	EXBV8V473J	COMBI.R-R 47K	1	
R10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R11	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R12	EXBV8V473J	COMBI.R-R 47K	1	
R13	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R15	EXBV8V473J	COMBI.R-R 47K	1	
R16-18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R19,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R22,23	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R25	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R26	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R27-34	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	8	
R101-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R104,05	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R106	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R107	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R108-10	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	3	
R112	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R114-26	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	13	
R127,28	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R129,30	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R131,32	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R133	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R134	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R135	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R136	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R137-39	D0GB123JA002	M.RESISTOR CH 1/16W 12K	3	
R140-42	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	3	
R143	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R144	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R145	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R146	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R147	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R148-54	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	7	
R155-58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R159,60	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R161,62	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R163,64	D0GB123JA002	M.RESISTOR CH 1/16W 12K	2	
R165	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R166	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R167	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R168	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R169-71	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	3	
R172	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R173	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R174	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R175-80	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	6	
R181-84	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R202,03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R205-07	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R208-11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R212,13	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R214,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R216-18	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R219	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R220	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R221	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R222-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R225,26	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R227,28	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R229,30	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R231,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R233,34	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R301,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R303,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R305,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R307	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R309,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R311	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R312	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R314	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R315	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R316	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R317	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R318	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R319,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R321,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R323	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R327	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R328,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R330	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R331	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R332	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R333	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R334-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R337	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R351,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R353	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R354	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R357	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R358	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R359	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R360	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R361	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R362	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R363	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R365	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R366	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R367	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R370,71	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R403,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R405,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R407	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R408	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R409,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R411	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R412	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R413	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R414	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R415	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R416	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R417	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R418	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R419,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R421,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R423	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R424,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R426	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R427	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R428,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R430	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R432	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R433	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R434-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R437	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R451,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R453	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R454	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R457	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R458	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R459	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R460	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R461	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R462	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R464	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R465	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R467	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R470	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R501,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R503,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R505,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R507	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R508	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R509,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R511	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R512	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R513	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R514	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R515	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R516	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R517	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R518	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R519,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R521,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R523	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R527	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R528,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R530	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R532	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R533	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R534-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R537	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R551,52	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R553,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R555,56	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R557	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R558	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R559,60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R561	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R562	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R563	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R564	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R565	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R566	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R567	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R568	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R569,70	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R571,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R573	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R574,75	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R576	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R577	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R578,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R580	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R582	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R583	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R584-86	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R587	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R601,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R603,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R605,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R607	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R608	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R609,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R611	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R612	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R613	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R614	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R615	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R616	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R617	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R618	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R619,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R621,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R623	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R624,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R626	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R627	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R628,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R630	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R632	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R633	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R634-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R637	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R701	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R702	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R703	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R704	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R705	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R706	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R707	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R708	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R709	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R710	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R711	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R712	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R713	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R716	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R717	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R731	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R732	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R733	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R734	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R735	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R736	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R737	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R738	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R739	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R740	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R741	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R742	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R743	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R746	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R747	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R761	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R762	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R763	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R764	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R765	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R766	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R767	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R768	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R769	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R770	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R771	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R772	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R773	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R776	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R777	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R801	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R802	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R803	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R804	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R805	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R806	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R807	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R811	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R812	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R813	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R818,19	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R820	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R826	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R827	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R828	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R829	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R832	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R833,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R835	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R836	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R837	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R838	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R839	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R840	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R841	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R842	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R843	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R844	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R845	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R846	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R847	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R848	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R849	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R850	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R851-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R855	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R856	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R857	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R858	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R859	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R860	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R861	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R901	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R902	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R903	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R905	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R906	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R907	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R911	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R912	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R920	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R926	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R927	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R928	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R929	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R933,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R935	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R936	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R938	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R950	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R951-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R957	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R959	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R960	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R961	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R962,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R964	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R965	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1002	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1003	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1004	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1005	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1007	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1011	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1012	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1013,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1017	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1018,19	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R1020	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1026	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1027	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1028	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1029	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1033,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1035	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1036	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1038	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1049	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1050	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1051-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1057	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1059	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1060	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1061	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1101	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1102	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1103	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1105	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1106	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1107	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1111	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1112	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1113,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1117	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1120	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1126	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1127	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1128	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1129	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1133,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1135	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1136	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1138	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1150	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1151-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1157	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1159	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1160	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1161	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1162,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1164	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R1165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1201	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1202	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1203	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1204	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1205	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1206	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1207	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1211	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1212	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1213,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1216	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1220	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1222-24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1226	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1227	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1228	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1233,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1235	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1236	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1238	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1249	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1250	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1251-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1257	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1259	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1260	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1261	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1262,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1264	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R1265	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1301	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1302	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R1303	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R1304-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R1307-12	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	6	
R1319-24	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	6	
R1325-27	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R1328-31	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R1332,33	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R1334	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
RY1301	VSY2176	RELAY	1	K6B2CDA00045
SW201,02	VJP2536A003	CONNECTOR (MALE)	2	
TG1,G2	VJR0646	TEST POINT	2	D0X0R0000022
TP1-P7	EYF6CU	TEST POINT	7	
TP101-05	EYF6CU	TEST POINT	5	
TP201-05	EYF6CU	TEST POINT	5	
TP302	EYF6CU	TEST POINT	1	
TP304,05	EYF6CU	TEST POINT	2	
TP402	EYF6CU	TEST POINT	1	
TP404,05	EYF6CU	TEST POINT	2	
TP801,02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	8	
	XYN2+J6	SCREW	2	
	VWZ0212	THERMAL CONDUCTIVE TUBE	5	
	VMP6464	HEAT SINK HOLDER ANGLE A	1	
	VMP6465	HEAT SINK HOLDER ANGLE B	2	
	VSC4609	SHIELD CASE	5	
	VJS1990	CONNECTOR (FEMALE)	2	
■ E5	VEP85215A	RF/CUE P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3,C4	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C5	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C7	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C8,C9	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C10-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C14	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C15,16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C17	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C18,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C20	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C21,22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C101,02	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C103,04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C106	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C107	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C108	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C109	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C110	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C111	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C112	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C113-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C116	EEFCD1C4R7R	E.CAPACITOR 16V 4.7U	1	
C117	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C171,72	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C173,74	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C176	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C177	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C178	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C179	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C180	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C181	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C182	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C183-90	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C251,52	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C253,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C256	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C257	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C258	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C259	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C260	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C261	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C262	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C263-65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C266	EEFCD1C4R7R	E.CAPACITOR 16V 4.7U	1	
C267	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C321,22	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C323,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C326	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C327	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C328	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C329	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C330	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C332	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C333,34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C339-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C401-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C405-08	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C409-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C417	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C420	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C421	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C422,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C431-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C435-38	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C439-45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C447	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C450	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C461-64	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C465-68	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C469-75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C477	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C480	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C481	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C482	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C483	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
C484	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C501-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C505-08	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C509-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C517	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C520	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C521	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C522,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C531-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C535-38	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C539-45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C547	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C550	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C561	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C562,63	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C580	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C581	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C582,83	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C601-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C606,07	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C608	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C609,10	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C611-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C616,17	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C618,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C620	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C4002	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4003	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4004	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4005	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4006	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4007	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4008	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4009,10	F1L2J682A010	C.CAPACITOR CH100V 1P	2	
C4011	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4012	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4013	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4014	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4015	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4016,17	F1L2J682A010	C.CAPACITOR CH100V 1P	2	
C4018	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4020	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4021	ECHU1C822JB	P.CAPACITOR 16V 8200P	1	
C4022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4023	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4024	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4026	F1K2J271A014	C.CAPACITOR CH 10V 270P	1	
C4027	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4028	EEVHP0J470	E.CAPACITOR 6.3V 47U	1	
C4029	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C4030,31	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4032	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4033	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4103,04	ECUX1C394KBN	C.CAPACITOR CH 16V 0.39U	2	
C4105,06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4107-09	ECHU1C104J	P.CAPACITOR 16V 0.1U	3	
C4110,11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4112	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4113,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4115	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4116	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4117	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C4118	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4119	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4121	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4122	EEVHP1E4R7	E.CAPACITOR 25V 4.7U	1	
C4123	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C4124	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4126	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4127	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4128	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4129,30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4131	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4133	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4134	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4135	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4136	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4137	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4139	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4140	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4141	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4142	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4201-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C4207,08	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4209,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4211	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4212	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4213	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4214	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4215	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4216	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4217	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4218,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4220	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4301	EEVHP1E4R7	E.CAPACITOR 25V 4.7U	1	
C4305,06	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	2	
C4308	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4309,10	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4311	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4313	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4314,15	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	2	
C4316,17	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4320-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C4325-28	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C4329	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4330	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4334	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C4338,39	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4343	ECUX1C394KBN	C.CAPACITOR CH 16V 0.39U	1	
C4344,45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4346	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4347	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D101-03	MA152WK	DIODE	3	
D171-73	MA152WK	DIODE	3	
D4001,02	MA142K	DIODE	2	
D4201	MA716	DIODE	1	
D4202	MA157A	DIODE	1	
FL4001	G2A193C00001	COIL	1	
FL4002	VLF1466B223	LINE FILTER	1	
FL4101	VLF1069	FILTER	1	G4ZZ00000278
FL4301-03	VLF1466B223	LINE FILTER	3	
IC1-C3	C0JBAB000541	IC	3	
IC4	TVHC00FT	IC	1	
IC5	C0JBAB000007	IC	1	
IC7-12	TC4S30F	IC	6	C0JBAZ000429
IC101	LT1175CS8	IC	1	
IC251	LT1175CS8	IC	1	
IC401	UPC5102GS030	IC	1	C1ZBZ0001316
IC402	UPC2726T	IC	1	
IC431	UPC5102GS030	IC	1	C1ZBZ0001316
IC432	UPC2726T	IC	1	
IC461	UPC5102GS030	IC	1	C1ZBZ0001316
IC462	UPC2726T	IC	1	
IC501	UPC5102GS030	IC	1	C1ZBZ0001316
IC502	UPC2726T	IC	1	
IC531	UPC5102GS030	IC	1	C1ZBZ0001316
IC532	UPC2726T	IC	1	
IC601,02	C0CBADD00003	IC	2	
IC4001	C0ABBB000124	IC	1	
IC4102	NJM78L09UA	IC	1	C0CBAHC00002
IC4103	C0JBAR000379	IC	1	
IC4104	TA75W558FU	IC	1	C0ABBA000042
IC4105	THC4052FT	IC	1	
IC4106	C1BB00000746	IC	1	
IC4107	C0JBAB000350	IC	1	
IC4108,09	TA75W558FU	IC	2	C0ABBA000042
IC4201	TA75W558FU	IC	1	C0ABBA000042
IC4203	C0DBZGH00001	IC	1	
IC4204	NJM79L05UA	IC	1	C0CBBDC00001
IC4205	TVHC244FT	IC	1	
IC4206	C0CBABC00049	IC	1	
IC4207	C0FBZH000011	IC	1	
IC4209	TA75W558FU	IC	1	C0ABBA000042
IC4302,03	TA75W558FU	IC	2	C0ABBA000042
IC4308	C0JBAR000379	IC	1	
IC4309	TA75W558FU	IC	1	C0ABBA000042
IC4313	TVHT244FT	IC	1	
L101,02	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L171,72	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L251,52	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L321,22	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L401	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L461	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L501	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L560,61	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L580,81	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L601-05	VLP0183	COIL	5	J0JKC0000007
L4001	VLQ0651K391	COIL 390UH	1	G1C391KA0013
L4002	VLQ0423J472	COIL 4700UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	VJP4064L140	CONNECTOR (MALE)	1	K1KBE0B00003
P2	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P3	VJS3900A024	CONNECTOR (FEMALE)	1	
P4	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P4001	VJP3125B009	CONNECTOR (MALE)	1	K1KA09B00055
Q1	2SA153200L	TRANSISTOR	1	
Q2	XP0431200L	TRANSISTOR	1	
Q3	XP0460100L	TRANSISTOR	1	
Q4,Q5	2SA153200L	TRANSISTOR	2	
Q6	XP0431200L	TRANSISTOR	1	
Q7-Q9	2SA153200L	TRANSISTOR	3	
Q101,02	2SC3935	TRANSISTOR	2	
Q103	XP4506	TRANSISTOR-RESISTOR	1	
Q104	2SC3935	TRANSISTOR	1	
Q106	2SC4536	TRANSISTOR	1	
Q107	2SA153200L	TRANSISTOR	1	
Q108	XP0150400L	TRANSISTOR	1	
Q109	2SK508K512	TRANSISTOR	1	
Q110	2SC4536	TRANSISTOR	1	
Q111	2SA153200L	TRANSISTOR	1	
Q112	XP0150400L	TRANSISTOR	1	
Q113	2SK508K512	TRANSISTOR	1	
Q114	2SC4536	TRANSISTOR	1	
Q116	2SC4536	TRANSISTOR	1	
Q117	2SC3935	TRANSISTOR	1	
Q171,72	2SC3935	TRANSISTOR	2	
Q173	XP4506	TRANSISTOR-RESISTOR	1	
Q174	2SC3935	TRANSISTOR	1	
Q176	2SC4536	TRANSISTOR	1	
Q177	2SA153200L	TRANSISTOR	1	
Q178	XP0150400L	TRANSISTOR	1	
Q179	2SK508K512	TRANSISTOR	1	
Q180	2SC4536	TRANSISTOR	1	
Q181	2SA153200L	TRANSISTOR	1	
Q182	XP0150400L	TRANSISTOR	1	
Q183	2SK508K512	TRANSISTOR	1	
Q184	2SC4536	TRANSISTOR	1	
Q186	2SC4536	TRANSISTOR	1	
Q187	2SC3935	TRANSISTOR	1	
Q251,52	2SC3935	TRANSISTOR	2	
Q254	2SC3935	TRANSISTOR	1	
Q256	2SC4536	TRANSISTOR	1	
Q257	2SA153200L	TRANSISTOR	1	
Q259	2SK508K512	TRANSISTOR	1	
Q260	2SC4536	TRANSISTOR	1	
Q261	2SA153200L	TRANSISTOR	1	
Q263	2SK508K512	TRANSISTOR	1	
Q264	2SC4536	TRANSISTOR	1	
Q266	2SC4536	TRANSISTOR	1	
Q267	2SC3935	TRANSISTOR	1	
Q321,22	2SC3935	TRANSISTOR	2	
Q324	2SC3935	TRANSISTOR	1	
Q326	2SC4536	TRANSISTOR	1	
Q327	2SA153200L	TRANSISTOR	1	
Q329	2SK508K512	TRANSISTOR	1	
Q330	2SC4536	TRANSISTOR	1	
Q331	2SA153200L	TRANSISTOR	1	
Q333	2SK508K512	TRANSISTOR	1	
Q334	2SC4536	TRANSISTOR	1	
Q336	2SC4536	TRANSISTOR	1	
Q337	2SC3935	TRANSISTOR	1	
Q401,02	XP4506	TRANSISTOR-RESISTOR	2	
Q403	XP6534	TRANSISTOR-RESISTOR	1	
Q405	XP6534	TRANSISTOR-RESISTOR	1	
Q431	XP4506	TRANSISTOR-RESISTOR	1	
Q435	XP6534	TRANSISTOR-RESISTOR	1	
Q461,62	XP4506	TRANSISTOR-RESISTOR	2	
Q463	XP6534	TRANSISTOR-RESISTOR	1	
Q464	XP0150400L	TRANSISTOR	1	
Q465	XP6534	TRANSISTOR-RESISTOR	1	
Q501,02	XP4506	TRANSISTOR-RESISTOR	2	
Q503	XP6534	TRANSISTOR-RESISTOR	1	
Q505	XP6534	TRANSISTOR-RESISTOR	1	
Q531	XP4506	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q535	XP6534	TRANSISTOR-RESISTOR	1	
Q560,61	2SC3735	TRANSISTOR	2	
Q580,81	2SC3735	TRANSISTOR	2	
Q601,02	2SB710A	TRANSISTOR	2	
Q4001	2SB779-R	TRANSISTOR	1	
Q4002	2SD1819A-R	TRANSISTOR	1	
Q4003	2SD874-R	TRANSISTOR	1	
Q4004	2SB779-R	TRANSISTOR	1	
Q4005	2SD1819A-R	TRANSISTOR	1	
Q4006	2SD874-R	TRANSISTOR	1	
Q4007	2SD1979	TRANSISTOR	1	
Q4008	2SB792-R	TRANSISTOR	1	
Q4009,10	2SD1149-R	TRANSISTOR	2	
Q4011,12	2SD1979	TRANSISTOR	2	
Q4201	2SD1979	TRANSISTOR	1	
QR601,02	UNR521100L	TRANSISTOR	2	
QR4001,02	UNR511300L	TRANSISTOR	2	
QR4003	UNR521300L	TRANSISTOR	1	
QR4004	UNR511300L	TRANSISTOR	1	
QR4005,06	UNR521300L	TRANSISTOR	2	
QR4007	UNR511300L	TRANSISTOR	1	
QR4201	UNR521300L	TRANSISTOR	1	
QR4202	UNR511300L	TRANSISTOR	1	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	EXBV8V473J	COMBI.R-R 47K	1	
R3,R4	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R5	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6	EXBV8V473J	COMBI.R-R 47K	1	
R7-42	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	36	D0GB103JA002
R101,02	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R103	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R104	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R105,06	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R107-09	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R110,11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R112,13	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R114-17	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	4	
R118,19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R121	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R123	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R124	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R125	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R126	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R127	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R128	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R129	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R130	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R131	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R132	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R133	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R134	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R135	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R136	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R137	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	D0GF561JA002
R138	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R140	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R141	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R142	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R143	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R145	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R146	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R149,50	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R171,72	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R173	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R174	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R175,76	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R177-79	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R180,81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R182,83	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R184-87	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	4	
R188,89	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R191	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R192	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R193	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R194	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R195	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R196	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R197	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R198	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R199	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R200	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R201	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R202	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R203	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R204	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R205	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R206	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R207	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	D0GF561JA002
R208	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R209	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R210	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R211	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R212	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R213	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R215	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R216	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R253	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R255,56	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R257,58	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R260,61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R262,63	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R268,69	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R270,71	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R272	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R273	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R274	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R275	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R276	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R277	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R279	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R280	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R281	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R282	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R283	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R284	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R285	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R287	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	D0GF561JA002
R288	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R289	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R290	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R291	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R292	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R293,94	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R295	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R296	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R299,00	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R323	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R325,26	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R327,28	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R330,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R332,33	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R338,39	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R340,41	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R342	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R343	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R344	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R345	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R346	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R347	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R349	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R350	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R351	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R352	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R353	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R355	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R357	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	D0GF561JA002
R358	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R359	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R360	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R361	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R362	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R363,64	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R365	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R366	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R369,70	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R403-06	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R407	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R408,09	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R410,11	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R412,13	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R414	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R417,18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R419,20	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R421,22	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R423,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R425,26	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R428,29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R431,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R433-36	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R437	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R438,39	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R440,41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R442,43	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R444	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R447,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R449,50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R451,52	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R453,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R455,56	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R457,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R459,60	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R461,62	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R463-66	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R468,69	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R470,71	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R472,73	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R474	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R477,78	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R479,80	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R481,82	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R483,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R485,86	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R487	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R488,89	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R490,91	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R501,02	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R503-06	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R507	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R508,09	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R510,11	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R512,13	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R514	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R517,18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R519,20	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R521,22	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R523,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R525,26	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R527	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R528,29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R531,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R533-36	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R537	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R538,39	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R540,41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R542,43	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R544	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R547,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R549,50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R551,52	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R553,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R555,56	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R560	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R561	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R562	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R563	ERJ8GEYJ270	M.RESISTOR CH 1/8W 27	1	
R564	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R565	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R580	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R581	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R582	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R583	ERJ8GEYJ270	M.RESISTOR CH 1/8W 27	1	
R584	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R585	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R601,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R605,06	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R701,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4004	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4005	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4006	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4007	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4008	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4009	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4011	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4012	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4013	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4014	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4015	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4016	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4017	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4018	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4024	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4025	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4026	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4027	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4028	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4029	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4030	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4031	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4032	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R4033	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4034	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4035	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4036	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4037,38	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4039	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4040	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4042,43	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4044	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4045	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4048	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4049	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4101,02	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4105	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4106	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4107	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4108	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R4109	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4110	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4111	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4112	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4113	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4114	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4116	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4117	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4119,20	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4122-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4125	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4126	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4127	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4128	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4129	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4130	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4131	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4132	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4135	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4136	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4137	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4138	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4139	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4140	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4201	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4202	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4203	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4206	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4208	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4209	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4210	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4211	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4212	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4213	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4216	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4217	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4218	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4301	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4306	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R4307	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4309	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R4310	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4312	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4315	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4316	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4318	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4319,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4322	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4324	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4327	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4330	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4332	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4335	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4340	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4344	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4346	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
T4001,02	VLT0729	TRANSFORMER	2	G4ZZ00000358
TG1	VJR0646	TEST POINT	1	D0X0R0000022
TG4005	EYF6CU	TEST POINT	1	
TG4101	EYF6CU	TEST POINT	1	
TG4203	EYF6CU	TEST POINT	1	
TP1,P2	EYF6CU	TEST POINT	2	
TP4001-04	EYF6CU	TEST POINT	4	
TP4101,02	EYF6CU	TEST POINT	2	
TP4201,02	EYF6CU	TEST POINT	2	
VR4001	VRV0161B503	V.RESISTOR 50K	1	
VR4002	VRV0161B103	V.RESISTOR 10K	1	
VR4103	VRV0161B503	V.RESISTOR 50K	1	
VR4301,02	VRV0161B502	V.RESISTOR 5K	2	
VR4305,06	VRV0161B103	V.RESISTOR 10K	2	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP7961	RF PB MOUNT ANGLE	2	
	VSC5040	HEAD BUFF SHIELD (UPPER)	1	
	VSC5041	HEAD BUFF SHIELD (MIDDLE)	1	
	VSC5042	P.C.BOARD SHIELD (LOWER)	1	
	XTV3+6FFR	SCREW	2	
	XYN2+J6	SCREW	2	
	VSC5583	EARTH HOLDER ANGLE	1	
	XSN26+3	SCREW	1	
	VMZ3026	SHIELD PROTECT SHEET	1	
	VEE9862	EARTH CABLE	1	
■ E6	VEP84393B	APROC P.C.BOARD	1	(RTL)
C4002-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4006,07	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4051-63	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	13	
C4101-05	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C4106	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4107-11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C4112	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C4113	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4151	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4152	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C4153	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4154	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C4155	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4156	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C4157-59	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4160,61	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4164-67	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4170,71	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4172-75	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4178-86	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	9	
C4187	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4188-90	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4191	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4193-95	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4196,97	EEVHB0J330	E.CAPACITOR 6.3V 33U	2	
C4198,99	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4201-04	ECQV1H105JL	P.CAPACITOR 50V 1U	4	
C4213,14	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4215-18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4219,20	F2H0J4700003	E.CAPACITOR 6.3V 47U	2	
C4221-24	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4225,26	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4227,28	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4229-32	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	4	
C4233-42	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	10	
C4243,44	F2H0J4700003	E.CAPACITOR 6.3V 47U	2	
C4245-48	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4249	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4250-53	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4254,55	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4256	F2H0J4700003	E.CAPACITOR 6.3V 47U	1	
C4265-68	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4269-72	ECHU1C472JB	P.CAPACITOR 16V 4700P	4	
C4273-80	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	8	
C4281-84	EEVHP0J100	E.CAPACITOR 6.3V 10U	4	
C4401-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4405-08	EEVHB1C100	E.CAPACITOR 16V 10U	4	
C4409-12	EEVHB1C220	E.CAPACITOR 16V 22U	4	
C4414,15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4417,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4420,21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4423,24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4425-28	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	4	
C4429-32	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C4433,34	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4435	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4437	EEVHB1C220	E.CAPACITOR 16V 22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4439	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4440	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4441	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4442	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4443,44	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4445,46	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4447,48	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4449-52	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4453-56	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	4	
C4457	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4458-65	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	8	
C4466-69	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4601	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C4602,03	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4608,09	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4613-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4617,18	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4619,20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4621,22	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4623	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4624,25	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4626,27	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4628	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4630,31	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4632	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4633,34	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4635,36	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4637	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4801,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4803,04	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4805,06	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C4807,08	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4809,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4811,12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4813,14	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4815,16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4817	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4818,19	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4820	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4821	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4823	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4825	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4827,28	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4829-32	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4833-36	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4837,38	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C4839,40	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4841,42	D4ED1220A006	VARISTOR	2	
D4201-03	MA716	DIODE	3	
D4601	MA716	DIODE	1	
D4602	MA147	DIODE	1	
D4603	MA716	DIODE	1	
D4604-06	MA142WK	DIODE	3	
D4607	MA716	DIODE	1	
D4608,09	MA142WA	DIODE	2	
FL4101	VLF1466B223	LINE FILTER	1	
IC4003	TVHC244FT	IC	1	
IC4004	C1ZBZ0001555	IC	1	
IC4006	C0EBE0000236	IC	1	
IC4007	C1ZBZ0002372	IC	1	
IC4008	TVHT244FT	IC	1	
IC4057-59	TVHT244FT	IC	3	
IC4060,61	TVHC244FT	IC	2	
IC4105,06	SN74S1051NS	IC	2	
IC4109-11	C0JBAZ000852	IC	3	
IC4112	TLCX245FT	IC	1	
IC4114-16	TVHT244FT	IC	3	
IC4151,52	C0JBAB000422	IC	2	
IC4155	TVHT244FT	IC	1	
IC4156	C0CBADD00003	IC	1	
IC4158	TLCX245FT	IC	1	
IC4160	MC74HC4046AF	IC	1	C0JBAZ000153

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4163	C5AB00000006	IC	1	
IC4164	C0ABHA000020	IC	1	
IC4166	TLCX245FT	IC	1	
IC4167	TVHC244FT	IC	1	
IC4169,70	C5AB00000006	IC	2	
IC4171	C3ABQG000045	IC	1	
IC4172	C5AB00000006	IC	1	
IC4173	TVHC244FT	IC	1	
IC4174,75	C0ZBZ0000830	IC	2	
IC4205-08	TA75W558FU	IC	4	C0ABBA000042
IC4209	XC62AP5002M	IC	1	C0CBADD00005
IC4210	XC62DN5002M	IC	1	
IC4211-14	THC4052FT	IC	4	
IC4219	XC62AP5002M	IC	1	C0CBADD00005
IC4220	XC62DN5002M	IC	1	
IC4221-24	C0FBBG000033	IC	4	
IC4225-28	TA75W558FU	IC	4	C0ABBA000042
IC4229-32	THC4052FT	IC	4	
IC4233	XC62AP5002M	IC	1	C0CBADD00005
IC4242-45	TA75W558FU	IC	4	C0ABBA000042
IC4401-04	C0ABBB000184	IC	4	
IC4409,10	C0FBZK000006	IC	2	
IC4411	C0CBABE00013	IC	1	
IC4412-15	C0ABBB000184	IC	4	
IC4420-23	THC4052FT	IC	4	
IC4601,02	C0JBAR000379	IC	2	
IC4603	TA75W558FU	IC	1	C0ABBA000042
IC4606,07	TC4W53FU	IC	2	
IC4613	TA75W558FU	IC	1	C0ABBA000042
IC4615	TA75W558FU	IC	1	C0ABBA000042
IC4617	TA75W558FU	IC	1	C0ABBA000042
IC4618	THC4052FT	IC	1	
IC4620	THC4052FT	IC	1	
IC4622	TA75W558FU	IC	1	C0ABBA000042
IC4624	THC4052FT	IC	1	
IC4626	THC4052FT	IC	1	
IC4632,33	C0JBAR000379	IC	2	
IC4636	XC62AP5002M	IC	1	C0CBADD00005
IC4637	XC62DN5002M	IC	1	
IC4639	TA75W558FU	IC	1	C0ABBA000042
IC4640	XC62AP5002M	IC	1	C0CBADD00005
IC4641	XC62DN5002M	IC	1	
IC4642	TA75W558FU	IC	1	C0ABBA000042
IC4644	XC62AP5002M	IC	1	C0CBADD00005
IC4645	XC62DN5002M	IC	1	
IC4646	THC4052FT	IC	1	
IC4801	TA75W558FU	IC	1	C0ABBA000042
IC4805	C1BB00000360	IC	1	
IC4806,07	NJM4556AM	IC	2	C0ABBB000042
ID0	VVVSI4283A	SOFTWARE	1	DOWNLOAD ONLY
L4151,52	VLF1151A132	COIL	2	
P4001	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P4002	K1KA08B00147	CONNECTOR (FEMALE)	1	
Q4201-04	2SD1979	TRANSISTOR	4	
Q4601-04	2SB1219A-R	TRANSISTOR	4	
Q4801	2SD602A-R	TRANSISTOR	1	
Q4802	2SB710A-RS	TRANSISTOR	1	
Q4803,04	2SD1979	TRANSISTOR	2	
Q4805,06	2SD1328	TRANSISTOR	2	
QR4201-04	UNR521300L	TRANSISTOR	4	
QR4205-08	UNR511300L	TRANSISTOR	4	
QR4601,02	UNR521300L	TRANSISTOR	2	
R4003	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4005-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4009	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4010	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4011	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4012	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4013	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4015	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4016	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4017	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4021	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
R4026	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4028	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4029	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4032	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4034	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4051	EXBV8V102J	COMBI.R-R 1K	1	
R4052	D1H833040002	COMBI.R-R 33	1	
R4053	EXBV8V102J	COMBI.R-R 1K	1	
R4054,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4056	D1H833040002	COMBI.R-R 33	1	
R4057-61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R4062	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4063	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4064	ERJ3GEYJ510	M.RESISTOR CH 1/16W 51	1	
R4065	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4066	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4067-73	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	7	
R4101-03	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R4104,05	D1H847240002	COMBI.R-R 4.7K	2	
R4112-14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4115	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4116	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4151	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4152	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4159	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4160	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4162	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4163,64	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4166	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4168	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4169,70	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R4171	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4172	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4173,74	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4175	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4176	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4178	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4179-81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4201-04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4205-08	ERJ3GEYJ114	M.RESISTOR CH 1/16W 110K	4	
R4209-12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4213-16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R4217-20	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4221	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4222	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4223	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4224	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4225	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4226	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4227	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4228	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4229	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4230	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4231	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4232	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4233	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4234	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4235	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4236	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4237	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4238	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4239	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4240	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4241	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4242	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4243	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4244	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4245	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4246	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4247	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4248	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4249-52	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	4	
R4253	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4255	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4256	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4257	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4258	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4259	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4260	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4261	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4262	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4263	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4264	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4265	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4266	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4267	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4268	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4269	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4270	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4271	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4272	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4273	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4274	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4275	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4276	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4277	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4278	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4279	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4280	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4281-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4285-88	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4289,90	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4291-94	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	4	
R4295-98	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	4	
R4299-02	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	4	
R4303-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4307	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4308	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4309	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4310	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4311	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4312	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4313	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4314	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4315	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4316	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4317	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4318	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4319-22	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	4	
R4323-26	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4327-30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R4331-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4335-38	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	4	
R4401-12	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	12	
R4413-16	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	4	
R4417-24	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4425-32	ERJ3RBD331	M.RESISTOR CH 1/16W 330	8	
R4433,34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4435,36	D1H84704A008	COMBI.R-R 47	2	
R4437,38	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4439,40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4441,42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4443	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4444	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4445	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4446-48	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4450	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4452	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4453	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4457	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4458-69	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	12	
R4470-77	ERJ3RBD201	M.RESISTOR CH 1/16W 200	8	
R4478-86	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	9	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4487	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4488	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4489	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4490	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4491	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4492	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4493	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4494	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4495	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4496	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4497	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4498	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4499	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4500	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4501	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4502	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4503	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4504	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4505	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4506	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4507	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4508	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4509	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4510	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4511	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4512	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4513	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4601	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4602-10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	9	
R4612	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4613	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R4614	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4617,18	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4619	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4620-23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4624	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4626	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4628,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4636	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4637	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4638	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4639	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4640	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4641	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4642	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4643	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4646,47	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	2	
R4648	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4649	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4650	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4651	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4652	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4653	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4654	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4655	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4656	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4657	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4658	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4659	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4660	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4661	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4662,63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4667	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4668	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4669	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4670	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4671	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4672	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4675-78	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4679,80	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	2	
R4681-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4685,86	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	2	
R4687	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4688,89	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	2	
R4690	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4692	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1						
R4694	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002					
R4695	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C4001	ECA1CHG221	E.CAPACITOR 16V 220U	1	
R4696	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1		C4101,02	EEVHB1C100	E.CAPACITOR 16V 10U	2	
R4697	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		C4103,04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
R4698,99	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002	C4105,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
R4700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C4107,08	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
R4701	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002	C4109,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
R4702	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1		C4111-18	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	8	
R4703	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		C4119,20	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
R4704	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		C4121,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
R4706	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		C4123-30	EEVHB1C470P	E.CAPACITOR 16V 47U	8	
R4707	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C4201,02	EEVHB1C100	E.CAPACITOR 16V 10U	2	
R4708,09	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2		C4203,04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
R4710	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C4205,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
R4712-15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4		C4207,08	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
R4801,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2		C4209,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
R4803,04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002	C4211-18	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	8	
R4805,06	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2		C4219,20	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
R4807,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002	C4221,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
R4809	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C4223-30	EEVHB1C470P	E.CAPACITOR 16V 47U	8	
R4811-13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3		C4300-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
R4814	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		C4304,05	EEVHB1A330	E.CAPACITOR 10V 33U	2	
R4815	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1		C4306-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	F1J1E104A082
R4818,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		C4310,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
R4821	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C4312-15	EEVHP1C100	E.CAPACITOR 16V 10U	4	
R4823	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C4316-19	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	4	
R4825,26	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2		C4320-23	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
R4829,30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002	C4326-29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
R4831,32	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2		C4330,31	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	2	
R4833,34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2		C4400-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
R4835,36	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002	C4404,05	EEVHB1A330	E.CAPACITOR 10V 33U	2	
R4837,38	ERJ3GEYJ432	M.RESISTOR CH 1/16W 4.3K	2		C4406-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	F1J1E104A082
R4839,40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2		C4410,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
R4841	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1		C4412-15	EEVHP1C100	E.CAPACITOR 16V 10U	4	
R4842	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1		C4416-19	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	4	
R4843	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1		C4420-23	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
R4844	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1		C4426-29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
R4845,46	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2		C4430,31	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	2	
R4847,48	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2						
R4849	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1		D4300,01	MA152WA	DIODE	2	
R4850	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		D4302,03	MA152WK	DIODE	2	
R4851	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1		D4304	MA716	DIODE	1	
R4852	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		D4400,01	MA152WA	DIODE	2	
R4853-58	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6		D4402,03	MA152WK	DIODE	2	
					D4404	MA716	DIODE	1	
TG4155-57	EYF6CU	TEST POINT	3						
TG4201	EYF6CU	TEST POINT	1		IC4101	TA75W558FU	IC	1	C0ABBA000042
TG4401,02	EYF6CU	TEST POINT	2		IC4102	NJM4556AM	IC	1	C0ABBB000042
TG4601	EYF6CU	TEST POINT	1		IC4103	TA75W558FU	IC	1	C0ABBA000042
					IC4104	NJM4556AM	IC	1	C0ABBB000042
TP4001-04	EYF6CU	TEST POINT	4		IC4201	TA75W558FU	IC	1	C0ABBA000042
TP4055,56	EYF6CU	TEST POINT	2		IC4202	NJM4556AM	IC	1	C0ABBB000042
TP4151-53	EYF6CU	TEST POINT	3		IC4203	TA75W558FU	IC	1	C0ABBA000042
TP4602-07	EYF6CU	TEST POINT	6		IC4204	NJM4556AM	IC	1	C0ABBB000042
					IC4300,01	AQV212SX	IC	2	K6G1AKB00012
VR4201-04	VRV0161B103	V.RESISTOR 10K	4		IC4302,03	K6G4AKB00004	IC	2	
VR4401-04	VRV0161B502	V.RESISTOR 5K	4		IC4304	XC62AP5002M	IC	1	C0CBADD00005
					IC4305,06	NJM2122M	IC	2	
X4151	VSX0519	CRYSTAL OSCILLATOR	1	H0D160500011	IC4307,08	TA75W558FU	IC	2	C0ABBA000042
X4152	H4G2455B0005	CRYSTAL OSCILLATOR	1		IC4309	XC62DN5002M	IC	1	
					IC4400,01	AQV212SX	IC	2	K6G1AKB00012
		MISCELLANEOUS			IC4402,03	K6G4AKB00004	IC	2	
					IC4404	XC62AP5002M	IC	1	C0CBADD00005
	VKC0572	P.C.BOARD CATCHER (L)	1		IC4405,06	NJM2122M	IC	2	
	VKC0573	P.C.BOARD CATCHER (R)	1		IC4407,08	TA75W558FU	IC	2	C0ABBA000042
	XNG3ES	NUT	2		IC4409	XC62DN5002M	IC	1	
	XYN3+J8	SCREW	2						
	XYN2+J6	SCREW	2		P4101	VJS3421A020	CONNECTOR (FEMALE)	1	K1MN20A00027
					P4102	VJP3600F030K	CONNECTOR (MALE)	1	
					P4103	K1KA03A00017	CONNECTOR (MALE)	1	
					P4301	VJP3600F030K	CONNECTOR (MALE)	1	
					P4303	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
■ E7	VEP84368B	A I/O P.C.BOARD	1	(RTL)	Q4101	2SD602A-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4102	2SB710A-RS	TRANSISTOR	1	
Q4103-06	2SD1328	TRANSISTOR	4	
Q4201	2SD602A-R	TRANSISTOR	1	
Q4202	2SB710A-RS	TRANSISTOR	1	
Q4203-06	2SD1328	TRANSISTOR	4	
QR4300-09	UNR521300L	TRANSISTOR	10	
QR4400-09	UNR521300L	TRANSISTOR	10	
R4001-30	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	30	
R4031	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4101,02	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4103,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4105,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4107,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4109,10	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4111-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4119-22	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4123,24	ERJ3RBD121	M.RESISTOR CH 1/16W 120	2	
R4125-28	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4131-34	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4135-40	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	6	
R4141-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4145,46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4201,02	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4203,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4205,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4209,10	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4211-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4219-22	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4223,24	ERJ3RBD121	M.RESISTOR CH 1/16W 120	2	
R4225-28	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4231-34	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4235-40	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	6	
R4241-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4245,46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4301	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4303	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4304,05	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4306,07	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4308	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4310	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4312,13	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4314-21	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	8	
R4322-25	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	4	
R4326	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4328	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4329	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4330,31	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R4332-35	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4336	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4337	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4338	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4339	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4340,41	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4342-45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	
R4346-49	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R4350-55	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4356,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4358,59	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4362,63	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4364,65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R4366-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	D0YDR0000005
R4401	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4403	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4404,05	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4406	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4407	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4408	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4409	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4412,13	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4414-21	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	8	
R4422-25	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4426	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4428	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4429	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4430,31	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R4432-35	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4436	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4437	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4438	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4439	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4440,41	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4442-45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	
R4446-49	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R4450-55	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4456,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4458,59	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4462,63	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4464,65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R4466-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	D0YDR0000005
VR4101,02	EVM7JGA00B52	V.RESISTOR 500	2	
VR4201,02	EVM7JGA00B52	V.RESISTOR 500	2	
■ E9	VEP82250A	MECHA I/F P.C.BOARD	1	(RTL)
C4	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C9	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C12	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C13	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C16	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C18,19	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C21,22	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C23	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C300	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C301	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C302-04	EEVHB1C470P	E.CAPACITOR 16V 47U	3	
C305-09	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C310-12	EEVHB1C470P	E.CAPACITOR 16V 47U	3	
C313	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C314	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C315-21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C400	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C401	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C403	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C404	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C405-07	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
C500	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C501	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C502,03	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C504,05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C506,07	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C508,09	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C510,11	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C512,13	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C514,15	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C516,17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C518,19	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C520	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C521	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C522	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C523	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C524	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C525	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C526	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C527	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C528,29	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C530,31	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C532,33	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C534,35	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C536,37	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C538,39	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C540,41	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C542,43	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C544,45	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C546,47	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C600,01	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C602	ECUX1H123KBV	C.CAPACITOR CH 50V 0.012U	1	
C603,04	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	2	
C606	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C607	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C608	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C609	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C610	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C611	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C612	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C613	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C614	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C615	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C616	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C700-02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C703	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C704	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C705,06	EEVHB1C220	E.CAPACITOR 16V 22U	2	
D1	MA147	DIODE	1	
D300	MA2Q73800L	DIODE	1	
D301	MA8075-M	DIODE	1	
D400	MA142K	DIODE	1	
D401-03	MA2Q73800L	DIODE	3	
D500-11	MA2Q73800L	DIODE	12	
D512,13	MA147	DIODE	2	
D700,01	MA147	DIODE	2	
IC2	C0ABBB000179	IC	1	
IC3	0P177GS	IC	1	
IC4	C0ABBB000179	IC	1	
IC5	0P177GS	IC	1	
IC6	C0ABBB000179	IC	1	
IC7	C0ABBB000184	IC	1	
IC8	C0ABBB000179	IC	1	
IC14	C0JBAZ000994	IC	1	
IC15	UPC4741G2	IC	1	
IC18	C0ABBB000184	IC	1	
IC19	C0BBBA000044	IC	1	
IC300	C0ABBA000075	IC	1	
IC301	BA6238A	IC	1	C0GAK0000007
IC302-04	C0JBAZ000608	IC	3	
IC305	BA6238A	IC	1	C0GAK0000007
IC306,07	C0JBAQ000080	IC	2	
IC400	C0JBAM000052	IC	1	
IC401	C0BBBA000044	IC	1	
IC500	C0BBBA000044	IC	1	
IC501,02	AN3834S	IC	2	
IC503	C0ABBB000179	IC	1	
IC703	C0JBAZ000994	IC	1	
IC2254	TC4538BF	IC	1	
J400-03	K4CD01000007	CABLE TERMINAL	4	
L300-04	VLF1151A132	COIL	5	
P300	K1KAA0A00120	CONNECTOR (MALE)	1	
P400	VJS3801D015	CONNECTOR (FEMALE)	1	
P401,02	VJP3172D005	CONNECTOR (MALE)	2	K1KA05B00053
P403	K1KA02B00075	CONNECTOR (MALE)	1	
P404	K1KA03B00102	CONNECTOR (MALE)	1	
P405,06	K1KA02B00075	CONNECTOR (MALE)	2	
P407	VJP1243T	CONNECTOR (MALE) 3P	1	K1KA03B00012
P408	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P409	K1KA03B00102	CONNECTOR (MALE)	1	
P410	K1KA02B00075	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P411	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P412	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P413	K1KA06A00031	CONNECTOR (MALE)	1	
P414	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P415,16	VJS3813C017	CONNECTOR (FEMALE)	2	K1MN17B00012
P417,18	VJP3172D004	CONNECTOR (MALE)	2	K1KA04B00007
P419	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P420	VJS3422B015	CONNECTOR (FEMALE)	1	
P421	VJS3422B019	CONNECTOR (FEMALE)	1	
P422,23	VJP3172D002	CONNECTOR (MALE)	2	K1KA02B00051
Q1	2SB1218A-R	TRANSISTOR	1	
Q100-07	B1DZED000002	TRANSISTOR	8	
Q300	2SD601A	TRANSISTOR	1	
Q301	2SB936A-Q	TRANSISTOR	1	
Q400,01	2SB766	TRANSISTOR	2	
Q500-05	2SD1624-S	TRANSISTOR	6	
Q700	2SD601A	TRANSISTOR	1	
Q701,02	2SB0709A0L	TRANSISTOR	2	
Q703	2SD601A	TRANSISTOR	1	
Q704	2SB0709A0L	TRANSISTOR	1	
Q705	2SD601A	TRANSISTOR	1	
QR100-11	UNR521300L	TRANSISTOR	12	
QR400,01	UNR521400L	TRANSISTOR-RESISTOR	2	
QR500-03	UN5215	TRANSISTOR-RESISTOR	4	
QR700	UNR521300L	TRANSISTOR	1	
QR701	UNR511300L	TRANSISTOR	1	
QR702	UN5215	TRANSISTOR-RESISTOR	1	
QR703	UNR511500L	TRANSISTOR	1	
R3,R4	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R7	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R10	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R11,12	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R13	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R15	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R16	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R18	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R19	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R20	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R21	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R22	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R24	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R25	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R26	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R27	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R28	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R31	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R32	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R33	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R100-03	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R104-06	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R107,08	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R109	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R110,11	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R112-15	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R300	EXBV8V473J	COMBI.R-R 47K	1	
R301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R302	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R303	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R304	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R305	EXBV8V473J	COMBI.R-R 47K	1	
R306	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R307,08	EXBV8V473J	COMBI.R-R 47K	2	
R309	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R310-12	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	3	
R313	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R314	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R315-17	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R318-22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R351	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R400	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R401	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R402	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R405	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R406	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R407	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R409	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R410	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R411	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R412	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R413	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R414-17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R418	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R419	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R420	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R421,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R500-03	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R504	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R505	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R506,07	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R508	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R509	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R510	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R511	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R512	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R513,14	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R515-18	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	4	
R519-22	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	4	
R523,24	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R525-28	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R529	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R530	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R531	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R532-34	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	3	
R535-38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R539,40	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R600	ERJ3GEYJ433	M.RESISTOR CH 1/16W 43K	1	
R601	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R602	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R603,04	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R606,07	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609	ERJ3GEYJ621	M.RESISTOR CH 1/16W 620	1	
R610	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R611	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R612	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R613	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R614,15	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R616	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R617	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R618	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R619	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R620	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R621	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R622	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R623	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R624	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R700-03	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R704,05	ERJ3RBD471	M.RESISTOR CH 1/16W 470	2	
R706	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R707	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R708,09	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R710	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
VR1	EVM7JGA00B24	V.RESISTOR 20K	1	
VR2	EVM7JGA00B54	V.RESISTOR 50K	1	
VR400,01	VRV0303B203A	V.RESISTOR 20K	2	D3EC3203A002

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E10	VEP81203D	POWER 1 P.C.BOARD	1	(RTL)
■	VEP81233A	SUB POWER 1 P.C.BOARD	1	(RTL)FOR VEP81203D
⚠ C1001	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1002,03	F1BAH1020010	C.CAPACITOR 1000P	2	
⚠ C1004	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1005	VCK0262M222A	C.CAPACITOR 2200P	1	F1BAH2220002
C1006	EEUFC1H101	E.CAPACITOR 50V 100U	1	
C1007	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C1010	VCK0106K221	C.CAPACITOR 220P	1	
C1013	ECEC2WB151DB	E.CAPACITOR 450V 150U	1	
C1014	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1015	ECQE2W105KC	P.CAPACITOR 450V 1U	1	
⚠ C1016	ECQU2A154ML	P.CAPACITOR 100V 0.15U	1	
C1017	ECQF6222JZH	P.CAPACITOR 630V 2200P	1	
C1102	ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1103	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C1106	ECKD2H221KB	C.CAPACITOR 500V 220P	1	
C1107	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C1108	EEUFC1E182	E.CAPACITOR 25V 1800U	1	
C1110	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C1111-13	EEUFC1E182	E.CAPACITOR 25V 1800U	3	
C1114,15	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	2	
C1118	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1901	ECA1HXL100	E.CAPACITOR 50V 10U	1	FOR VEP81233A
C1902	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1903	ECJ2VC1H221J	C.CAPACITOR CH 50V 220P	1	FOR VEP81233A
C1904	ECQV1H684JL	P.CAPACITOR 50V 0.68U	1	FOR VEP81233A
C1905	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	FOR VEP81233A
C1906	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010 FOR VEP81233A
C1908	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	FOR VEP81233A
C1909	ECA1HXL010	E.CAPACITOR 50V 1U	1	FOR VEP81233A
C1910	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	F1J1H561A025 FOR VEP81233A
C1912	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	FOR VEP81233A
C1913	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	FOR VEP81233A
C1914	ECJ2VF1H104Z	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1915	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	FOR VEP81233A
C1916	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1917	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010 FOR VEP81233A
C1921,22	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	F1J1H103A010 FOR VEP81233A
C1923	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1924	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	FOR VEP81233A
D1001	SFPL-52	DIODE	1	
D1002	RBV606	DIODE	1	
D1003,04	SFPL-52	DIODE	2	
D1005	FML-G26S	DIODE	1	
D1006-09	MA3100-M	DIODE	4	
D1101	MA3270-M	DIODE	1	
D1103	SFPL-52	DIODE	1	
D1104	AP01C	DIODE	1	B0HADV000010
D1105	SFPL-52	DIODE	1	
D1106	D20LC20U	DIODE	1	B0HBSM000021
D1107	U1GU44	DIODE	1	
D1108	SFPL-52	DIODE	1	
D1109	MA3200-M	DIODE	1	
D1110,11	MA152K	DIODE	2	
D1112	MA3068-M	DIODE	1	
D1901,02	MA3200-M	DIODE	2	FOR VEP81233A
D1903	MA3100-M	DIODE	1	FOR VEP81233A
D1904	MA152K	DIODE	1	FOR VEP81233A
D1905	MA152WA	DIODE	1	FOR VEP81233A
D1906	MA3270-M	DIODE	1	FOR VEP81233A
D1907	MA3051-M	DIODE	1	MAZ30510ML FOR VEP81233A
D1908	MA3068-M	DIODE	1	FOR VEP81233A
D1911	MA3068-M	DIODE	1	FOR VEP81233A
D1914	MA152K	DIODE	1	FOR VEP81233A
⚠ F1001	VSF0246	FUSE	1	
IC1101	AN1431M	IC	1	
IC1901	M51951BL	IC	1	C0EAH0000030 FOR VEP81233A
IC1902	MC33262P	IC	1	C0DAZZZ00013 FOR VEP81233A
IC1903	FA5311BP	IC	1	C0DAAZZ00002 FOR VEP81233A

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
J1002	VWJ0121	CABLE	1	
J1004	VWJ0121	CABLE	1	
J1101,02	VWJ0121	CABLE	2	
L1002	VLQ0861	COIL	1	
⚠ L1003,04	ELF20N015A	COIL	2	
L1007	VLP0083	COIL	1	J0JKB0000011
L1101,02	VLP0083	COIL	2	J0JKB0000011
L1106-08	VLP0336	FERRITE CORE	3	
P1001	VJP2073	CONNECTOR (MALE)	1	K1KA02A00104
P1002,03	VJP3878	CONNECTOR (MALE)	2	K1KA02B00137
P1004,05	VJP3042G003W	CONNECTOR (MALE)	2	K1KA03A00157
P1006	VJP3042G017W	CONNECTOR (MALE)	1	K1KA17A00011
P1007	VJP1149	CONNECTOR (MALE)	1	K1KA03B00084
P1101	K1KA06A00262	CONNECTOR	1	
P1901,02	VJS3042B003W	CONNECTOR (FEMALE)	2	K1KB03B00007 FOR VEP81233A
P1903	VJS3042B017W	CONNECTOR (FEMALE) 17P	1	K1KB17B00005 FOR VEP81233A
⚠ PC1101,02	B3QAZ0000030	PHOTO COUPLER	2	
Q1001	AC08FGM	DIODE	1	B2BAJR000001
⚠ Q1002	2SK1941-01R	TRANSISTOR	1	B1DEGR000002
⚠ Q1101	2SK2677-4112	TRANSISTOR	1	B1BAGU000002
Q1102	2SD601A-R	TRANSISTOR	1	
Q1103	2SB0709ALL	TRANSISTOR	1	
Q1901	XN1501	TRANSISTOR-RESISTOR	1	FOR VEP81233A
Q1903	2SJ278	TRANSISTOR	1	FOR VEP81233A
QR1901	UN2111	TRANSISTOR-RESISTOR	1	FOR VEP81233A
QR1902	UNR221300L	TRANSISTOR	1	FOR VEP81233A
QR1904	UNR221300L	TRANSISTOR	1	FOR VEP81233A
QR1905	UN2113	TRANSISTOR-RESISTOR	1	FOR VEP81233A
QR1906	UNR211200L	TRANSISTOR	1	FOR VEP81233A
QR1907	UNR221300L	TRANSISTOR	1	FOR VEP81233A
⚠ R1001	ERC12AGM334C	S.RESISTOR 1/2W 33K	1	
R1002-05	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	4	
R1006	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
⚠ R1007	ERU5TEJ100	F.RESISTOR 5W 10	1	
R1009	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1010,11	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	2	
R1012	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1013	ERX2SJR22	M.RESISTOR 2W 0.22	1	
R1014	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1017	ERG2SJ220	M.RESISTOR 2W 22	1	
R1018	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1019	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
R1020	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R1021	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1023	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	1	
R1024	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1025	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1026	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R1101	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R1102	ERX2SJR33	M.RESISTOR 2W 0.33	1	
R1104	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	1	
R1105	ERJ12YJ680	M.RESISTOR CH 1/2W 68	1	
R1108	ERG2SJ104	M.RESISTOR 2W 100K	1	
R1109	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	1	
R1110	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1111	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	D0GD221JA003
R1112	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R1114	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1115,16	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1117	ERJ6RBD622	M.RESISTOR CH 1/10W 6.2K	1	
R1118	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R1119,20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1121	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R1122	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1123	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R1124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1125	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R1127	ERG2SJ104	M.RESISTOR 2W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1901,02	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	2	FOR VEP81233A
R1903	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1904	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	FOR VEP81233A
R1905-07	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	FOR VEP81233A
R1908	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	FOR VEP81233A
R1909	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1910	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	FOR VEP81233A
R1911	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	FOR VEP81233A
R1912,13	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	2	FOR VEP81233A
R1915	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1916	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	FOR VEP81233A
R1917	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	FOR VEP81233A
R1919	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	FOR VEP81233A
R1920,21	ERJ12YJ104	M.RESISTOR CH 1/2W 100K	2	FOR VEP81233A
R1923	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	D0GD225JA003 FOR VEP81233A
R1925	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	FOR VEP81233A
R1926-28	ER050CHD1503	M.RESISTOR 150K	3	FOR VEP81233A
R1930	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003 FOR VEP81233A
R1931-33	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	FOR VEP81233A
R1934	ERJ6GEYG912	M.RESISTOR CH 1/10W 9.1K	1	FOR VEP81233A
R1935	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	FOR VEP81233A
R1936	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	FOR VEP81233A
R1938	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	D0GD221JA003 FOR VEP81233A
R1944-46	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	FOR VEP81233A
R1949,50	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	FOR VEP81233A
R1951	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005 FOR VEP81233A
R1953	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	FOR VEP81233A
⚠ T1101	G4D2C0000005	TRANSFORMER	1	
⚠ TH1101	VRT0142	THERMISTOR	1	D4DDB3310005
TP1101	VJR0646	TEST POINT	1	D0X0R0000022
		MISCELLANEOUS		
⚠	VWZ0074	INSULATION COVER	1	
⚠	VMZ2187	INSULATION COVER	1	
⚠	VMZ1608	CAPACITOR TUBE	1	
	VMP5282	TRANSISTOR CLIP	1	
	VSC4861	HEAT SINK (C)	1	
	VSC4860	HEAT SINK (B)	1	
⚠	VMZ0965	CAPACITOR COVER	2	
	VSC3434	SHIELD CASE	1	
	XYN3+F8	SCREW	4	
	XTV3+8G	SCREW	1	
	VMP5283	EARTH LUG	2	
	XYN3+F6	SCREW	2	
	VMZ2908	HEAT SINK	2	
	VMZ2969	HEAT SINK	1	
	XYN3+J8	SCREW	4	
■ E11	VEP81219B	POWER 2 P.C.BOARD	1	(RTL)
C1201-03	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C1204	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C1206	ECA1HXS100	E.CAPACITOR 50V 10U	1	
C1207	ECQV1H684JL	P.CAPACITOR 50V 0.68U	1	
C1208,09	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1211	VCEA1DSP680	E.CAPACITOR 20V 68U	1	
C1212	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1213	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1214,15	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1301	ECA1HHGR33	E.CAPACITOR 50V 0.33U	1	
C1302	ECA1HHGR22	E.CAPACITOR 50V 0.22U	1	
C1303,04	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1305	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1306	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	
C1307	ECA1HHGR22	E.CAPACITOR 50V 0.22U	1	
C1308	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1309	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1310	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1311	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1312	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C1313	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1314	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1316,17	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C1318,19	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1325	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1326,27	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1328,29	VCEA1DSP680	E.CAPACITOR 20V 68U	2	
C1330-33	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
C1335	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1336	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1337	VCEA1AAP221	E.CAPACITOR 10V 220U	1	F2D1A2210001
C1338	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1339	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1340	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1341	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1342	F2D1A1010002	E.CAPACITOR 10V 100U	1	
C1344	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1345	F2D1D1010001	E.CAPACITOR 20V 100U	1	
C1346	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1347,48	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1352,53	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1354	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1401	ECUM1E683KBN	C.CAPACITOR CH 25V 0.068U	1	
C1402	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1403	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C1404	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1405,06	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1411	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1412,13	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1414	VCEA1ASC4R7M	E.CAPACITOR 10V 4.7U	1	F2D1A4R70002
C1415-17	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	3	
C1418,19	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1420,21	VCEA1AAP221	E.CAPACITOR 10V 220U	2	F2D1A2210001
C1422,23	F2D1A1010002	E.CAPACITOR 10V 100U	2	
C1424,25	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1427	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
C1801	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1802	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1803	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1804	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	
C1805	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1806	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C1807	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1808	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1811	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1814,15	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1816,17	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C1818	F2D1A1010002	E.CAPACITOR 10V 100U	1	
C1819	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1820	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1821	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1822	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1823	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1824	F2D1A1010002	E.CAPACITOR 10V 100U	1	
D1201	VSD0129	DIODE	1	
D1202	SF20SC3L	DIODE	1	B0JBSD000010
D1203	MA142WK	DIODE	1	
D1204	MA142WA	DIODE	1	
D1205	MA3100-M	DIODE	1	
D1206	MA142K	DIODE	1	
D1208	MA3200-M	DIODE	1	
D1209	MA8068-M	DIODE	1	
D1211	SFPB-54	DIODE	1	B0JCMC000002
D1212	MA142K	DIODE	1	
D1213	MA8100-M	DIODE	1	
D1214	MA142WK	DIODE	1	
D1215	MA3051-H	DIODE	1	
D1216	MA142K	DIODE	1	
D1301	MA152K	DIODE	1	
D1302-06	MA142K	DIODE	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1308	SFPB-54	DIODE	1	B0JCMC000002
D1309-11	DE5SC4M-4061	DIODE	3	B0JDRE000001
D1312,13	MA142K	DIODE	2	
D1314	MA8180-M	DIODE	1	
D1315	MA142K	DIODE	1	
D1316	MA8180-M	DIODE	1	
D1317	MA142K	DIODE	1	
D1318	MAZ80820HL	DIODE	1	
D1319	MA142K	DIODE	1	
D1320	MA8130-M	DIODE	1	
D1321	MA142K	DIODE	1	
D1322	MA142WA	DIODE	1	
D1323	MA142K	DIODE	1	
D1324	MA152K	DIODE	1	
D1402,03	MA142WK	DIODE	2	
D1404,05	SFPB-76V	DIODE	2	
D1406,07	MAZ80680KL	DIODE	2	
D1408	MA142WA	DIODE	1	
D1409	MA142WK	DIODE	1	
D1801	MA142K	DIODE	1	
D1802	MAZ81400ML	DIODE	1	
D1803	MA142K	DIODE	1	
D1804	MAZ80680KL	DIODE	1	
D1805	MA142K	DIODE	1	
D1806	MA142WA	DIODE	1	
D1807	MA152K	DIODE	1	
D1808,09	MA142K	DIODE	2	
D1810,11	DE5SC4M-4061	DIODE	2	B0JDRE000001
⚠ F1201	K5D103AQ0001	FUSE	1	
IC1201	C0BBBA000019	IC	1	
IC1203	UPC1093J	IC	1	C0DAEMC00002
IC1301,02	BA9743AFV	IC	2	C0DBAZC00010
IC1401	C0DBAZB00006	IC	1	
IC1801	BA9743AFV	IC	1	C0DBAZC00010
L1301,02	VLQ0655K100	COIL 10UH	2	
L1303,04	J0JBC0000023	FILTER	2	
L1305	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1306	J0JBC0000023	FILTER	1	
L1307	VLQ0859M220	COIL 22UH	1	
L1308	VLQ0859M221	COIL 220U	1	
L1309	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1310	VLQ0859M221	COIL 220U	1	
L1311	VLQ0655K220	COIL 22UH	1	
L1312	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1313	VLQ0441K220	COIL 22UH	1	
L1314,15	VLQ0655K220	COIL 22UH	2	
L1316	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1317	J0JKC0000009	FILTER	1	
L1401-04	J0JBC0000023	FILTER	4	
L1405,06	VLQ0441K1R0	COIL 1.0UH	2	
L1407	VLQ0859M100	COIL 10UH	1	
L1408	VLQ0859M220	COIL 22UH	1	
L1409	VLQ0655M3R3	COIL 3.3UH	1	
L1410	VLQ0655K100	COIL 10UH	1	
L1801	VLQ0655K100	COIL 10UH	1	
L1802,03	J0JBC0000023	FILTER	2	
L1804	VLQ0784331	COIL 330UH	1	
L1805	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1806	VLQ0859M221	COIL 220U	1	
L1807,08	VLQ0441K220	COIL 22UH	2	
L1809	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
P1201	K1KA06A00262	CONNECTOR	1	
P1202	VJP3957A002	CONNECTOR (MALE)	1	K1KA02A00169
P1203	VJP4232B030	CONNECTOR (MALE)	1	K1KA30B00031
P1204	VJP1596T	CONNECTOR (MALE)	1	K1KA03A00113
P1205	K1KA03A00017	CONNECTOR (MALE)	1	
Q1201,02	XN0121300L	TRANSISTOR-RESISTOR	2	
Q1203	XN0460100L	TRANSISTOR-RESISTOR	1	
Q1204-07	B1DGJG000005	TRANSISTOR	4	
Q1208,09	XN0440100L	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1210	XN4501	TRANSISTOR-RESISTOR	1	
Q1211,12	2SD1819A-R	TRANSISTOR	2	
Q1301,02	XN4501	TRANSISTOR-RESISTOR	2	
Q1303,04	2SD1819A-R	TRANSISTOR	2	
Q1306,07	2SD1819A-R	TRANSISTOR	2	
Q1308	2SD1820A-R	TRANSISTOR	1	
Q1309-12	XN0440100L	TRANSISTOR	4	
Q1313	2SJ279S	TRANSISTOR	1	B1DGDG000002
Q1314	2SJ214S	TRANSISTOR	1	
Q1315	2SJ279S	TRANSISTOR	1	B1DGDG000002
Q1316,17	2SK1059-Z	TRANSISTOR	2	B1DFDG000001
Q1318,19	2SD1819A-R	TRANSISTOR	2	
Q1401-04	B1DFFD000006	FET	4	
Q1801	2SD1819A-R	TRANSISTOR	1	
Q1802	XN4501	TRANSISTOR-RESISTOR	1	
Q1803	2SD1819A-R	TRANSISTOR	1	
Q1805	2SD1819A-R	TRANSISTOR	1	
Q1807,08	XN0440100L	TRANSISTOR	2	
Q1809,10	2SJ279S	TRANSISTOR	2	B1DGDG000002
QR1201	UNR521300L	TRANSISTOR	1	
QR1202	UNR521100L	TRANSISTOR	1	
QR1203	UNR511300L	TRANSISTOR	1	
QR1204	UN5212	TRANSISTOR-RESISTOR	1	
QR1207	UN5212	TRANSISTOR-RESISTOR	1	
QR1208	UNR511300L	TRANSISTOR	1	
QR1210,11	UNR521100L	TRANSISTOR	2	
QR1301,02	UNR511200L	TRANSISTOR	2	
QR1303	UNR521100L	TRANSISTOR	1	
QR1304,05	UNR511200L	TRANSISTOR	2	
QR1306-08	UNR521100L	TRANSISTOR	3	
QR1309,10	UNR511300L	TRANSISTOR	2	
QR1801	UNR511300L	TRANSISTOR	1	
QR1802	UNR511200L	TRANSISTOR	1	
QR1803	UNR521100L	TRANSISTOR	1	
QR1804	UNR511200L	TRANSISTOR	1	
QR1805	UNR521100L	TRANSISTOR	1	
R1201	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1202-05	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R1207,08	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	2	
R1209	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1210	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1211	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1212	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1213	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1215	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1217	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1220,21	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1222	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1223	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1224	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1225	ERJ3RBD513	M.RESISTOR CH 1/16W 51K	1	
R1227,28	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1229	VRE0222J33M	M.RESISTOR	1	
R1230	VRE0222J10M	M.RESISTOR	1	
R1231,32	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R1233,34	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	2	
R1235	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R1236,37	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1238,39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1240	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R1241	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1242	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1243	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1244	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	D0GD220JA003
R1248	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1249	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R1252	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1303-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R1307,08	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R1309-12	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R1313,14	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R1315	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1316	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1317	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1318	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1319,20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R1321	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1322	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1323	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1324,25	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1326	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1327-29	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R1330	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1331	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1332,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1334	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1335	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R1336	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1338	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1339,40	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1341	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1342	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1344	VRE0202H18	M.RESISTOR CH 0.18	1	
R1345,46	ERJL14KJ50M	M.RESISTOR CH 1/4W 5	2	
R1347	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1348	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1349	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1350	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1351	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1352	VRE0202HR10	M.RESISTOR CH 1	1	
R1355	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1357,58	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1359	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1360	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1364,65	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1366	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1368	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1371	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1372	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1373	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1374,75	ERJ6RBD911	M.RESISTOR CH 1/10W 910	2	
R1376	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R1377	ERJ6RBD563	M.RESISTOR CH 1/10W 56K	1	
R1378,79	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1380	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R1381	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1382	ERJ6RBD111	M.RESISTOR CH 1/10W 110	1	
R1383	ERJ6RBD362	M.RESISTOR CH 1/10W 3.6K	1	
R1384,85	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1386,87	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	D0GD121JA003
R1388	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1390	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1392	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1393	ERJ6RBD751	M.RESISTOR CH 1/10W 750	1	
R1394	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1395	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R1403	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1404	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1405	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1407,08	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1409,10	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	2	
R1416	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1417,18	VRE0202H12	M.RESISTOR CH 0.12	2	
R1419,20	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1421	ERJ6RBD432	M.RESISTOR CH 1/10W 4.3K	1	
R1422	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R1423,24	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1425	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1427	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1801,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1803,04	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	D0GD121JA003
R1805,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1807-10	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R1812	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1813	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1814	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R1815	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1817	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1818	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1819	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1820	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R1821	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1822	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1823	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1824,25	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	D0GD222JA003
R1828	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1829	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R1830,31	ERJL14KJ50M	M.RESISTOR CH 1/4W 5	2	
R1832	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1833	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1834	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1835	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1838,39	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1843	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1844	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R1845	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R1846	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1847	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
R1848	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R1849	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R1850	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
T1301	VLT0925	TRANSFORMER	1	G4ZZ00000377
⚠ TH1205	VRT0148050	THERMISTOR	1	D4ZZ00000006
TH1206	VRT0143	THERMISTOR	1	
TP1301-06	EYF6CU	TEST POINT	6	
TP1401,02	EYF6CU	TEST POINT	2	
TP1801,02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	EYF52BC	FUSE HOLDER	2	
	VJR1008	EARTH LUG	4	
	VSC4859	HEAT SINK (A)	1	
	XYN3+F8	SCREW	1	
	XYN3+J8	SCREW	1	
■ E12	VEP81232B	POWER 3 P.C.BOARD	1	(RTL)
C1502	EEFCD0K330R	E.CAPACITOR 8V 33U	1	
C1503	ECA0JHG471B	E.CAPACITOR 6.3V 470U	1	
C1504	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	1	
C1505	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C1506	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1507	EEUFC1V561S	E.CAPACITOR 35V 560U	1	
C1508	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1509	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1510,11	ECA1CHG472	E.CAPACITOR 16V 4700U	2	
C1601	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1609	ECJ2VC1H222J	C.CAPACITOR CH 50V 2200P	1	
C1613	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1614	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C1616	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1620	ECJ2XC1H331J	C.CAPACITOR CH 50V 330P	1	
C1621	ECUM1H100JCN	C.CAPACITOR CH 50V 10P	1	
C1630	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1631	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1701,02	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1703	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1704,05	ECUX1H563KBN	C.CAPACITOR CH 50V 0.056U	2	
C1706,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1708,09	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1710,11	F2H1D470A004	E.CAPACITOR CH 20V 47U	2	
C1712,13	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1714,15	EEUFC1A391	E.CAPACITOR 10V 390U	2	
C1716,17	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1718,19	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1720,21	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	2	
C1722	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1801,02	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1803	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1804,05	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	2	
C1806,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1808,09	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1810,11	F2H1D470A004	E.CAPACITOR CH 20V 47U	2	
C1812,13	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1814,15	EEUFC1A391	E.CAPACITOR 10V 390U	2	
C1816,17	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C1818,19	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1820,21	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	2	
C1822	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
D1501	MA3051-H	DIODE	1	
D1502,03	MA115	DIODE	2	
D1504	MA3270-M	DIODE	1	
D1505	NSQ03A04	DIODE	1	B0JCPE000013
D1506	MA3062M	DIODE	1	
D1507	MA142K	DIODE	1	
D1606	MAZ82200ML	DIODE	1	
D1609	MA142WK	DIODE	1	
D1610	NSQ03A04	DIODE	1	B0JCPE000013
D1611	MA142WK	DIODE	1	
D1701	MA720	DIODE	1	
D1703,04	NSQ03A04	DIODE	2	B0JCPE000013
D1705,06	MA8056-MH	DIODE	2	
D1708	MA142WK	DIODE	1	
D1710	MA720	DIODE	1	
D1711	MA142WK	DIODE	1	
D1720,21	MA8030-H	DIODE	2	
D1803,04	NSQ03A04	DIODE	2	B0JCPE000013
D1805,06	MA8056-MH	DIODE	2	
D1807	MA142WA	DIODE	1	
D1808	MA142WK	DIODE	1	
D1809,10	MA720	DIODE	2	
D1811	MA8030-H	DIODE	1	
D1813	MA8030-H	DIODE	1	
IC1501	C0ABBA000071	IC	1	
IC1602	C0DBAKG00004	IC	1	
IC1702,03	C0DBAGH00030	IC	2	
IC1801,02	C0DBAGH00030	IC	2	
JP1501-03	VJR1008	EARTH LUG	3	
L1501	G1A220F00006	COIL 22UH	1	
L1602	G1A4R7H00002	COIL 4.7UH	1	
L1603	VLQ0859M470	COIL 47UH	1	
L1604	J0JKC0000009	FILTER	1	
L1605	J0JBC0000023	FILTER	1	
L1609	G1A4R7H00002	COIL 4.7UH	1	
L1701	G1A4R7H00002	COIL 4.7UH	1	
L1702,03	J0JBC0000023	FILTER	2	
L1704,05	J0JKC0000009	FILTER	2	
L1706,07	VLQ0859M470	COIL 47UH	2	
L1709	G1A4R7H00002	COIL 4.7UH	1	
L1712	G1A4R7H00002	COIL 4.7UH	1	
L1801	G1A4R7H00002	COIL 4.7UH	1	
L1802,03	J0JBC0000023	FILTER	2	
L1804,05	J0JKC0000009	FILTER	2	
L1806,07	VLQ0859M100	COIL 10UH	2	
L1812	G1A4R7H00002	COIL 4.7UH	1	
P1501	VJP3926A024	CONNECTOR (MALE)	1	
P1502	K1KA06A00031	CONNECTOR (MALE)	1	
P1503	K1KA08A00119	CONNECTOR (MALE)	1	
Q1501	2SD601A-R	TRANSISTOR	1	
Q1502	2SC3074Y	TRANSISTOR	1	B1BADF000002
Q1503	2SB936A-Q	TRANSISTOR	1	
Q1504	2SD1819A-R	TRANSISTOR	1	
Q1602	B1DFFD000006	FET	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1701-04	B1DFFD000006	FET	4	
Q1705,06	2SD1819A-R	TRANSISTOR	2	
Q1708,09	2SD1819A-R	TRANSISTOR	2	
Q1801-04	B1DFFD000006	FET	4	
R1501	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1502,03	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	D0GD221JA003
R1504,05	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R1506	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1507	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1508	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1509	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R1510-12	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	3	
R1513	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1609	ERJL1WKJ47M	M.RESISTOR CH 1W	1	
R1619	ERJ6RED474	M.RESISTOR CH 1/10W 470K	1	
R1623	ERJ6RBD243	M.RESISTOR CH 1/10W 24K	1	
R1626	ERJ6RBD393	M.RESISTOR CH 1/10W 39K	1	
R1627	ERJ6RBD182	M.RESISTOR CH 1/10W 1.8K	1	
R1628	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R1648	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1650	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
⚠ R1659	K5H312300003	FUSE	1	
R1701,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1705,06	ERJL1WKJ47M	M.RESISTOR CH 1W	2	
R1707,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1711,12	ERJ6RED184	M.RESISTOR CH 1/10W 180K	2	
R1713	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1714	ERJ6RED154	M.RESISTOR CH 1/10W 150K	1	
R1715	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1716	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R1717,18	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1719	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1721,22	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R1723,24	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R1725	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1730,31	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R1801,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1805,06	VRE0202H22M	M.RESISTOR	2	
R1807,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1809	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1810	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1811	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1812	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1813	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1814	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1815,16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1820,21	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
T1501	VLT0889	TRANSFORMER	1	G4ZZ00000368
		MISCELLANEOUS		
	VSC5620	SHIELD A	1	
	VMP5861	P.C.B. HOLDER ANGLE (L)	1	
	VMP5862	P.C.BOARD FIX ANGLE (R)	1	
	XTV3+6F	SCREW	2	
	VKC0295	BOARD SPACER	1	
■ E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	(RTL)
P1,P2	K1KB06B00035	CONNECTOR (FEMALE)	2	
■ E14	VEP80C73B	MOTHER P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
JP1-P6	VJR1008	EARTH LUG	6	
P101	K1KA08A00441	CONNECTOR (MALE)	1	
P103-05	K1KA08A00441	CONNECTOR (MALE)	3	
P111	VJS4232A030	CONNECTOR (FEMALE)	1	K1KB30A00003
P112	VJP3926A024	CONNECTOR (MALE)	1	
P201-05	VJS4064N160E	CONNECTOR (FEMALE)	5	K1KAG0A00006
P206	VJS4064K140E	CONNECTOR (FEMALE)	1	K1KAE0A00007
P301,02	VJS3600F030K	CONNECTOR (FEMALE)	2	
P303	VJS3406D020	CONNECTOR (FEMALE)	1	K1MN20B00029
P401,02	K1MN40A00007	CONNECTOR	2	
P403	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048
		MISCELLANEOUS		
	VKC0295	BOARD SPACER	2	
	VEE1A29	SHIELD CABLE	1	
	VJF0300	A/C HEAD BINDER	1	
■ E15	VEP86343A	FRONT P.C.BOARD	1	(RTL)
C1-C3	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	3	F1J1H121A025
C4,C5	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	F1J1H101A025
C6-C8	F1L1A4760003	C.CAPACITOR CH 16V 47U	3	
C9-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C13	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C14,15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C16	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C18	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C100	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C101-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C200	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
D1-D5	MA3X15300L	DIODE	5	
D200-04	LN38GCPP	LED	5	
DP100	VSL0489	DISPLAY	1	A2BA00000191
IC1	C2CBKJ000078	IC	1	
IC2	TL7705CPSB	IC	1	C0EBS0000002
IC3	C0JBAB000350	IC	1	
IC100,01	MN12511S	IC	2	
ID0	VVVSI4330A	SOFTWARE	1	DOWNLOAD ONLY
J1	VJJ0571	JACK	1	
L1,L2	G1C101K00022	COIL 100UH	2	
P1	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048
P2	K1KA03A00017	CONNECTOR (MALE)	1	
P3	K1KA06A00031	CONNECTOR (MALE)	1	
P200	VJS4243B018	CONNECTOR (FEMALE)	1	K1MN18B00032
Q100-06	2SB710A-R	TRANSISTOR	7	
Q200-11	2SD0601ARL	TRANSISTOR	12	
QR100-06	MUN2213	TRANSISTOR-RESISTOR	7	
R3	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
⚠ R4	K5H1023A0001	FUSE	1	
R5	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6,R7	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R8,R9	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R10	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R11	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	D0GD105JA003
R12,13	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R14-17	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R18,19	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R20-22	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	3	
R23	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R24	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R25	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R107	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R110	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R111	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R113	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R114	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R115	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R118	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R119	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R120	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R121-27	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	7	
R200-02	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	3	
R203	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R204,05	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R206	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R207	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R208-10	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	3	
R211	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R212	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R213,14	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R215	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R216	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R217,18	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R219	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R220	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R221,22	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R224	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R225	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R226	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R227,28	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R229	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R230	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R231	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
SW203	VSS0249	SWITCH	1	K0D113A00050
SW205	VSS0250	SWITCH	1	K0D112A00104
SW206	VSS0249	SWITCH	1	K0D113A00050
SW65102	EVQQS307K	SWITCH	1	
SW65105	EVQQS307K	SWITCH	1	
SW65107,08	EVQQS307K	SWITCH	2	
VR1	EVJYM0F15C23	V.RESISTOR 2K	1	
X1	H0J100500016	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VJF1360	DISPLAY HOLDER	1	
	VGQ0458	SPACER	5	
	QJT0015	GND TERMINAL	1	
■ E16	VEP83626A	V JACK P.C.BOARD	1	(RTL)
C1,C2	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3,C4	EEFCD0K330R	E.CAPACITOR 8V 33U	2	
C5,C6	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C7	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C9,10	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C12-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C17,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C19	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C21,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C23,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C25	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C26,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C28	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
D1	MA3062M	DIODE	1	
D3,D4	MA3062M	DIODE	2	
D5	MA716	DIODE	1	
D6	MA142K	DIODE	1	
D7	MA3062M	DIODE	1	
IC1	C0CBADD00003	IC	1	
IC2	XC62DN5002M	IC	1	
J1-J3	K1QBB2AA0005	CONNECTOR	3	
J4	K2HA205A0004	JACK	1	
J5	K1QBB2AA0005	CONNECTOR	1	
L1,L2	VLP0183	COIL	2	J0JKC0000007
L3-L8	VLP0145	COIL	6	
P1,P2	VJS3421A020	CONNECTOR (FEMALE)	2	K1MN20A00027
P3	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016
Q1	XN4501	TRANSISTOR-RESISTOR	1	
Q3,Q4	XN4501	TRANSISTOR-RESISTOR	2	
Q5	2SA1532-B	TRANSISTOR	1	
Q6	XN4501	TRANSISTOR-RESISTOR	1	
Q7	2SC2295	TRANSISTOR	1	
R1	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3,R4	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R7,R8	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R9	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R11,12	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R13,14	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R17-20	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	4	
R21	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R22	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R23	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R26	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R27	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R29	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R30	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R31	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R32	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R33,34	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R35	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R36	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R37,38	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R39	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R40,41	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R42	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R43	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R44	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	1	
SW1	VSS0307	SWITCH	1	K0D122A00105
		MISCELLANEOUS		
	VMP5301	D SUB HOLDER ANGLE	1	
■ E17	VEP84394B	A JACK P.C.BOARD	1	(RTL)
C201-04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
C229-32	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
J201,02	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003
J203,04	K1AB103A0007	CONNECTOR (MALE)	2	
J205,06	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003
J207,08	K1AB103A0007	CONNECTOR (MALE)	2	
L201	VLP0145	COIL	1	
L203	VLP0145	COIL	1	
L205,06	VLP0145	COIL	2	
L208	VLP0145	COIL	1	
L210	VLP0145	COIL	1	
L212	VLP0145	COIL	1	
L214,15	VLP0145	COIL	2	
L217	VLP0145	COIL	1	
L219,20	VLP0145	COIL	2	
L222	VLP0145	COIL	1	
L224,25	VLP0145	COIL	2	
L227	VLP0145	COIL	1	
L229-31	VLP0145	COIL	3	
L233	VLP0145	COIL	1	
L235,36	VLP0145	COIL	2	
L238	VLP0145	COIL	1	
L240	VLP0145	COIL	1	
P201	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
■ E18	VEP86344A	KEY P.C.BOARD	1	(RTL)
P301	VJS2582B018	CONNECTOR (FEMALE)	1	K1MN18B00028
R301,02	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R303	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R304	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R305	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R306	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R307	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R308	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R309	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R310	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R311	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R312	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R313	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R314	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R315	ERJ14YJ181	M.RESISTOR CH 1/4W 180	1	
SW301	VST0331	SWITCH	1	K0C112B00006
SW302	VSP0853A000	SWITCH	1	K0F111A00235
SW303	VSP0792	SWITCH	1	K0F111A00280
SW304	K0F111A00426	SWITCH	1	
SW305	VSP0791	SWITCH	1	K0F111A00279
SW306	VSP0790	SWITCH	1	K0F111A00278
SW307	VSP0793	SWITCH	1	K0F111A00281
SW308	VSP0789	SWITCH	1	K0F111A00283
■ E19	VEP86346A	REC VR P.C.BOARD	1	(RTL)
P65401	VJP1610T	CONNECTOR (MALE)	1	K1KA06B00059
VR65401,02	EVU023003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0E69	REC VR CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E20	VEP86347A	PB VR P.C.BOARD	1	(RTL)
P65301	VJP1611T	CONNECTOR (MALE)	1	K1KA07B00032
VR65301,02	EVU023006B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0E70	PB VR CABLE	1	
■ E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	(RTL)
C66000	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C66001	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C66002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C66003	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
IC66000	TL7705CPSB	IC	1	C0EBS0000002
P66001,02	VJS3537A024G	CONNECTOR (FEMALE)	2	K1MN24A00027
P66003	VJP1599T	CONNECTOR (MALE)	1	K1KA06A00125
P66004	VJP1600T	CONNECTOR (MALE)	1	K1KA07A00066
P66005	K1KA03A00017	CONNECTOR (MALE)	1	
R66000	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R66001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
■ E22	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	
■ E23	VEP82249B	SERVO P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C5	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C6	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C9,10	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C11,12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C16	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C17,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C19,20	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	2	
C21-24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C28,29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C30	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C100	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C101-04	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	4	
C109-11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C112-15	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C116,17	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C200	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C209,10	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C211	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C218	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C219,20	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C222	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C300-03	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C304	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C305,06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C307	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C308-14	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C315,16	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C317-21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C322	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C323	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C324,25	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C326,27	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C328	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C350-60	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	11	
C400,01	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C403-06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C407,08	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C409	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C410,11	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	2	
C412-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C417,18	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C450,51	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	F1K1C105A026
C452,53	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C454,55	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C456-58	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C700-02	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	F1J1H103A010
C703	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C704	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C705	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C706	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C707	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C708,09	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C710	F1K0J1060002	C.CAPACITOR CH6.3V 10U	1	
C711,12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C713-15	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C716	F1K0J1060002	C.CAPACITOR CH6.3V 10U	1	
C717,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C719	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C720	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C721	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C722,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C724	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C725	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C726,27	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C800-06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C807	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C808	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C809	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C810	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C811	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C812-14	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C815	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C816	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C817,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C819,20	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C900	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C901	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C902	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C903	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C904,05	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C906	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C907	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C908	EEVHB1E330P	E.CAPACITOR 25V 33U	1	
C909	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C910	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C911	EEVHB1E330P	E.CAPACITOR 25V 33U	1	
C5001,02	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C5003,04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C5005	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5006	EEVHB1E470P	E.CAPACITOR 25V 47U	1	
C5007,08	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C5009,10	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C5011,12	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C5013,14	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C5015,16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C6001	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6002	VCE0180	E.CAPACITOR 25V 100U	1	F2G1E1010003
C6003,04	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C6005	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6006,07	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C6008,09	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C6010-12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C6013	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6014	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C6015	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6016	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6017	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6018-20	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C6021,22	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	F1K1C105A026
D1-D4	MA8075-H	DIODE	4	
D5,D6	MA142K	DIODE	2	
D8	MA147	DIODE	1	
D300-02	MA147	DIODE	3	
D403,04	MA142K	DIODE	2	
D405-07	MA147	DIODE	3	
D408	MA142K	DIODE	1	
D450,51	MA142K	DIODE	2	
D800	MA142WK	DIODE	1	
D801	MA142K	DIODE	1	
D802-05	MA142WK	DIODE	4	
D806	MA147	DIODE	1	
D807,08	MA142WK	DIODE	2	
D809	MA142WA	DIODE	1	
D810	MA8051-M	DIODE	1	
D811	MA8082-H	DIODE	1	
D812	MA142WK	DIODE	1	
D813	MA142K	DIODE	1	
D814	MAZ80330HL	DIODE	1	
D815	MA8039-H	DIODE	1	MAZ80390HL
D5001,02	MA2J72800L	DIODE	2	
D5003,04	MA2Q73600L	DIODE	2	
D6001,02	MA2J72800L	DIODE	2	
D6003,04	MA2Q73600L	DIODE	2	
D6005	MA142K	DIODE	1	
IC1	TC4052BF	IC	1	
IC2	C0ABBB000179	IC	1	
IC3	C0JBAZ000994	IC	1	
IC4	TC4052BF	IC	1	
IC5-C8	C0ABBB000179	IC	4	
IC9,10	C0ABBB000184	IC	2	
IC11,12	C0BBBA000044	IC	2	
IC13	C0JBAZ000994	IC	1	
IC17	C0ABBB000184	IC	1	
IC20	C0BBBA000044	IC	1	
IC23	C0JBAB000397	IC	1	
IC24	C0JBAZ001121	IC	1	
IC26-28	C0JBAZ001121	IC	3	
IC29	C0JBAZ001003	IC	1	
IC33-35	C0ABBB000179	IC	3	
IC36,37	C0ABBA000075	IC	2	
IC38	C0BBBA000044	IC	1	
IC41	C0BBBA000044	IC	1	
IC42	C0ABBB000184	IC	1	
IC46	C0JBAF000487	IC	1	
IC47,48	C0JBAM000111	IC	2	
IC49	C0JBAZ001120	IC	1	
IC50	C0JBAM000111	IC	1	
IC51	C0JBAZ001120	IC	1	
IC52	C0JBAM000111	IC	1	
IC53	C0ABBA000075	IC	1	
IC54	C0BBBA000044	IC	1	
IC302	MN1030F04KHF	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC350	X9288L7T144	IC	1	
IC351	X9144L7T100	IC	1	
IC400	M62370GP	IC	1	C0FBBD000082
IC700	AN3890FBS	IC	1	
IC701	TB6519F	IC	1	C0GBY0000011
IC900	C0CBABD00005	IC	1	
IC5001,02	MN13821-S	IC	2	
IC6001	TL1451CNS	IC	1	C0DBAMA00001
ID0	VVVSI4281A	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4289A	SOFTWARE	1	DOWNLOAD ONLY
J900-02	K4CD01000007	CABLE TERMINAL	3	
L900-04	VLF1151A132	COIL	5	
L5001,02	VLQ0407120M	COIL 12UH	2	G0A120HA0007
L5003,04	VLQ0650M151	COIL 150UH	2	G1C151MA0016
L6001,02	VLQ0650M151	COIL 150UH	2	G1C151MA0016
P300	VJS3791B020	CONNECTOR (FEMALE)	1	
P350	K1KA08B00147	CONNECTOR (FEMALE)	1	
P900,01	K1MN40A00007	CONNECTOR	2	
P902	K1KA08A00119	CONNECTOR (MALE)	1	
P903	K1KBA0A00084	CONNECTOR (FEMALE)	1	
Q450,51	2SD601A	TRANSISTOR	2	
Q700	PU3210	TRANSISTOR	1	
Q701	PU3110	TRANSISTOR	1	
Q702	2SB1073-R	TRANSISTOR	1	
Q703	2SD1119-R	TRANSISTOR	1	
Q704	2SB1073-R	TRANSISTOR	1	
Q705	2SD1119-R	TRANSISTOR	1	
Q706	2SB1073-R	TRANSISTOR	1	
Q707	2SD1119-R	TRANSISTOR	1	
Q800	2SB710A	TRANSISTOR	1	
Q801,02	2SB1073-R	TRANSISTOR	2	
Q5001,02	2SD1819A-R	TRANSISTOR	2	
Q5003	2SB1174-Q	TRANSISTOR	1	2SB11740Q
Q5004	2SB1073	TRANSISTOR	1	
Q5005,06	2SD1819A-R	TRANSISTOR	2	
Q6001,02	2SB1174-Q	TRANSISTOR	2	2SB11740Q
QR1-R4	UNR521300L	TRANSISTOR	4	
QR9	UNR521300L	TRANSISTOR	1	
QR700	UNR521300L	TRANSISTOR	1	
QR701	UN5217	TRANSISTOR-RESISTOR	1	
QR702	UNR521300L	TRANSISTOR	1	
QR703	UNR521400L	TRANSISTOR-RESISTOR	1	
QR800	UNR521400L	TRANSISTOR-RESISTOR	1	
QR801	UNR511300L	TRANSISTOR	1	
QR802	UNR521400L	TRANSISTOR-RESISTOR	1	
QR803	UNR521300L	TRANSISTOR	1	
QR806	UNR521300L	TRANSISTOR	1	
QR807,08	UNR521400L	TRANSISTOR-RESISTOR	2	
QR809	UNR521300L	TRANSISTOR	1	
QR810	UNR511300L	TRANSISTOR	1	
QR811-15	UNR521400L	TRANSISTOR-RESISTOR	5	
QR816	UNR511300L	TRANSISTOR	1	
QR5001,02	UNR521300L	TRANSISTOR	2	
QR6001,02	UNR511100L	TRANSISTOR	2	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R8	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R9	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R10	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R11	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R13	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R14	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R15	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R16	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R17	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R19	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R21	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R22	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R23	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R24	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R25	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R28	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R29	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R30	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R33	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R34	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R35	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R36	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R40,41	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	2	
R42,43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R46,47	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R49	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R51	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R54	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R55	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R56	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R57,58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R59	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R100	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R101	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R102	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R103	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R104	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R105	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R106	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R107	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R108	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R109	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R110	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R111	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R112	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R113	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R114	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R115	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R116-19	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	4	
R120,21	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R122-25	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R126-29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R130-33	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R134-37	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	4	
R138	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R139	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R140	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R141	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R142,43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R144,45	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R146-49	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	4	
R201	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R202	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R203	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R204	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R209	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R210	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R211	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R212	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R213,14	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R218,19	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R220,21	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R226,27	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R234,35	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R238,39	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R240,41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R242,43	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R244,45	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R300	EXBV8V470J	COMBI.R-R 47	1	
R301,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R303	EXBV8V470J	COMBI.R-R 47	1	
R304-06	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R307-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R310	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R311	EXBV8V473J	COMBI.R-R 47K	1	
R312	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R313	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R315,16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R317	EXBV8V101J	COMBI.R-R 100	1	
R318	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R320	EXBV8V470J	COMBI.R-R 47	1	
R321	EXBV8V473J	COMBI.R-R 47K	1	
R322,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R324	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R327	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R328	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R329	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R330-35	EXBV8V470J	COMBI.R-R 47	6	
R336	EXBV8V473J	COMBI.R-R 47K	1	
R337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R343	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R350	EXBV8V102J	COMBI.R-R 1K	1	
R351	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R352	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R354	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R357	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R358	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R359,60	EXBV8V470J	COMBI.R-R 47	2	
R361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R362	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R365	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R366,67	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R368	EXBV8V470J	COMBI.R-R 47	1	
R369	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R370	ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R400,01	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R402,03	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	2	
R407-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R410,11	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R412,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R414,15	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R417	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R419	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R420,21	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R422	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R423	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R424-26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R428	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R429	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R430	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R432	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R450,51	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R452	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R453,54	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R455	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R456-59	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R460,61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R700-02	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	3	
R703	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R704	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R705	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R706,07	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R708	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R709	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R710,11	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R712	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R713	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R714	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R715	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R716-18	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	3	
R719	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R720-22	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	3	
R800	EXBV8V473J	COMBI.R-R 47K	1	
R801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R802	EXBV8V473J	COMBI.R-R 47K	1	
R803	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R804	EXBV8V473J	COMBI.R-R 47K	1	
R805	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R806	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R807	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R808	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R809	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R811	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R812-15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R816	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R818	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R819	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R820	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R823	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R824	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R825	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R826	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R827,28	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R829-33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	D0GB103JA002
R834-36	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	3	
R837,38	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R839	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R840	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R841	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R842	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R843,44	ERJ8GEYJ181	M.RESISTOR CH 1/8W 180	2	
R845,46	ERJ3GEYJ155	M.RESISTOR CH 1/16W 1.5M	2	
R847,48	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	2	
R900	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R907-09	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R5001	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R5002	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R5003	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5004	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R5005-08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5009	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
⚠ R5010	K5H2523A0001	FUSE	1	
R5013,14	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R5015,16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R5017,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5019,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R5021,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5023,24	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5025,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5027-30	ERJ12YJ222	M.RESISTOR CH 1/2W 2.2K	4	
R5031,32	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R6001	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R6003,04	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R6005,06	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R6007,08	ERJ12YJ471	M.RESISTOR CH 1/2W 470	2	
R6009	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6010	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R6011	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R6012	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R6013	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6014	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R6015	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6016	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6017,18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6019	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6020	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6021	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6022,23	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6024	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6025	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R6026	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6027,28	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R6029,30	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R6031	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6032	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6033	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R6034,35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6036	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
TG450	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP104-07	EYF6CU	TEST POINT	4	
TP204,05	EYF6CU	TEST POINT	2	
TP350-53	EYF6CU	TEST POINT	4	
TP371	EYF6CU	TEST POINT	1	
TP409	EYF6CU	TEST POINT	1	
TP800,01	EYF6CU	TEST POINT	2	
TP900	EYF6CU	TEST POINT	1	
X300	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

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ELECTRICAL REPLACEMENT PARTS LIST
FOR AJ-HD1200AE/AMC

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83624B	REC PB P.C.BOARD	1	(RTL)
■ E2	VEP83625B	V OUT SYS P.C.BOARD	1	(RTL)
■ E4	VEP85214B	RF/EQ P.C.BOARD	1	(RTL)
■ E5	VEP85215A	RF/CUE P.C.BOARD	1	(RTL)
■ E6	VEP84393B	APROC P.C.BOARD	1	(RTL)
■ E7	VEP84368B	A I/O P.C.BOARD	1	(RTL)
■ E9	VEP82250A	MECHA I/F P.C.BOARD	1	(RTL)
■ E10	VEP81203E	POWER 1 P.C.BOARD	1	(RTL)
■	VEP81233A	SUB POWER 1 P.C.BOARD	1	(RTL)FOR VEP81203E
■ E11	VEP81219B	POWER 2 P.C.BOARD	1	(RTL)
■ E12	VEP81232B	POWER 3 P.C.BOARD	1	(RTL)
■ E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	(RTL)
■ E14	VEP80C73B	MOTHER P.C.BOARD	1	(RTL)
■ E15	VEP86343A	FRONT P.C.BOARD	1	(RTL)
■ E16	VEP83626A	V JACK P.C.BOARD	1	(RTL)
■ E17	VEP84394B	A JACK P.C.BOARD	1	(RTL)
■ E18	VEP86344A	KEY P.C.BOARD	1	(RTL)
■ E19	VEP86346A	REC VR P.C.BOARD	1	(RTL)
■ E20	VEP86347A	PB VR P.C.BOARD	1	(RTL)
■ E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	(RTL)
■ E22	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
■ E23	VEP82249B	SERVO P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83624B	REC PB P.C.BOARD	1	(RTL)
C1,C2	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C3,C4	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C5,C6	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C7,C8	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C9,10	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	F1H1H102A009
C11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C12	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C13	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C14-17	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	4	
C18-26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C27-31	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	5	
C50-73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	24	
C100-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	15	
C150-65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C166,67	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C168,69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C170	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C171	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C172	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C173	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C174	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C175-84	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C200	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C201	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C202	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C203-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C250,51	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C252	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C253,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C255	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C256	ECUX1C184KBN	C.CAPACITOR CH 16V 0.18U	1	
C257-69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	13	
C290	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C300,01	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C302-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C370-73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C374	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C375,76	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C377	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C378	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C379	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C380-92	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	13	
C450	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C452	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C457-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C500-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	11	
C511	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C550	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C551	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C552-57	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C558	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C559	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C561-81	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	21	
C650,51	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C652	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C653	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C654-58	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C659	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C660,61	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C662,63	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C664,65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C670	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D150,51	MA3J14300L	DIODE	2	
D650	LN1271RAL	DIODE	1	
FL500,01	EZAST33AAAJ	FILTER	2	
IC1,C2	C0CBABD00005	IC	2	
IC3	DS90CR217MTD	IC	1	C0ZBZ0000466

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4	DS90CR218MTD	IC	1	C0ZBZ0000468
IC5	C0CBAAD00023	IC	1	
IC50,51	C3HBKG000002	IC	2	
IC52	C3HBKZ000001	IC	1	
IC53	C1ZBZ0002371	IC	1	
IC100	C1AB00001751	IC	1	
IC101,02	C3HBKZ000001	IC	2	
IC150	MB87J1460	IC	1	C1AB00001232
IC151,52	C3ABQG000045	IC	2	
IC153	C0JBAZ000279	IC	1	
IC154	C0CBBDB00004	IC	1	
IC155	C0CBADD00003	IC	1	
IC156	C0ABEB000017	IC	1	
IC157,58	C0JBAZ001958	IC	2	
IC200	L7A1644	IC	1	C1AA00000231
IC201,02	MN47V07AF	IC	2	
IC250,51	MN673797A	IC	2	
IC252	BH7086KV	IC	1	C1ZBZ0001649
IC253	C0JBAB000422	IC	1	
IC254	C0JBAB000350	IC	1	
IC300	C1ZBZ0002371	IC	1	
IC370	C0CBABD00005	IC	1	
IC371	C3ABRG000011	IC	1	
IC372	H1ZYYYYB0004	IC	1	
IC373	C1AB00001590	IC	1	
IC450	C1ZBZ0002212	IC	1	
IC500	C1AB00001589	IC	1	
IC550	C0CBABD00005	IC	1	
IC551	C1ZBZ0002212	IC	1	
IC552	DS90LV047AC	IC	1	
IC553,54	DS90LV048AC	IC	2	
IC555	XC62FP3202P	IC	1	
IC556	C0CBABD00005	IC	1	
IC557	C0JBAZ002080	IC	1	
IC558-60	DS90LV048AC	IC	3	
IC561	DS90LV047AC	IC	1	
IC562	C0JBAZ001958	IC	1	
IC652	C2DBML000004	IC	1	
IC660	C3FBLD000046	IC	1	
ID0	VVVSI4279B	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4284D	SOFTWARE	1	DOWNLOAD ONLY
ID2	VVVSI4285B	SOFTWARE	1	DOWNLOAD ONLY
ID3	VVVSI4233A	SOFTWARE	1	DOWNLOAD ONLY
L1-L6	VLP0183	COIL	6	J0JKC0000007
L250	VLQ0319K150	COIL 15UH	1	G1C150KA0002
L650,51	VLQ0163J470	COIL 47UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	K1KA08B00147	CONNECTOR (FEMALE)	1	
P300	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A00020
P650	K1KA10A00303	CONNECTOR (MALE)	1	
P651	VJS3791B020	CONNECTOR (FEMALE)	1	
QR650	UNR521300L	TRANSISTOR	1	
R1-R4	ERJ3RBD101	M.RESISTOR CH 1/16W 100	4	
R5,R6	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R7	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R8	EXBV8V102J	COMBI.R-R 1K	1	
R14	EXBV8V101J	COMBI.R-R 100	1	
R50-52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R53	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R54-61	D1H833040002	COMBI.R-R 33	8	
R62,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R64	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R66	D1H833040002	COMBI.R-R 33	1	
R67	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R68,69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R71-73	D1H833040002	COMBI.R-R 33	3	
R76	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R77-82	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	6	
R84-86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R87-89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R90-93	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R100,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R104-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R110-15	D1H833040002	COMBI.R-R 33	6	
R116,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R150	D1H833040002	COMBI.R-R 33	1	
R151-55	EXBV8V102J	COMBI.R-R 1K	5	
R156,57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R158,59	D1H833040002	COMBI.R-R 33	2	
R160	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R161	D1H833040002	COMBI.R-R 33	1	
R162,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R164,65	EXBV8V101J	COMBI.R-R 100	2	
R166	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R167	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R168	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R169	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R170-72	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R173	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R174	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R175,76	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R177	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R178,79	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R180	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R181	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R182	VLP0173	COIL	1	J0JGC0000015
R183-86	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R200	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R201	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R202,03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R204	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R205	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R206	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R207,08	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R209,10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R211	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R212	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R213	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R215	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R250,51	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R252-55	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R256	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R257	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R258	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R259	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R260	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R261	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R262	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R263	D1H833040002	COMBI.R-R 33	1	
R264	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R265	D1H833040002	COMBI.R-R 33	1	
R267	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R268	D1H833040002	COMBI.R-R 33	1	
R269,70	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R271,72	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R273,74	D1H833040002	COMBI.R-R 33	2	
R275,76	EXBV8V101J	COMBI.R-R 100	2	
R277-81	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	D0GB103JA002
R282,83	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R284	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R285	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R286,87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R288,89	D1H833040002	COMBI.R-R 33	2	
R290,91	EXBV8V101J	COMBI.R-R 100	2	
R292	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R293-96	EXBV8V102J	COMBI.R-R 1K	4	
R300	EXBV8V101J	COMBI.R-R 100	1	
R301,02	D1H833040002	COMBI.R-R 33	2	
R303	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R304,05	D1H833040002	COMBI.R-R 33	2	
R306	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R307	EXBV8V101J	COMBI.R-R 100	1	
R308,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R310,11	D1H833040002	COMBI.R-R 33	2	
R328-32	D1H833040002	COMBI.R-R 33	5	
R333	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R334-37	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R338-41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R354-57	D1H833040002	COMBI.R-R 33	4	
R358	EXBV8V102J	COMBI.R-R 1K	1	
R359-62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R363-65	D1H833040002	COMBI.R-R 33	3	
R366-69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R370	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R371	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R372	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R373-75	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R376	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R377,78	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R381	EXBV8V473J	COMBI.R-R 47K	1	
R382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R383	EXBV8V101J	COMBI.R-R 100	1	
R384	EXBV8V473J	COMBI.R-R 47K	1	
R385	EXBV8V102J	COMBI.R-R 1K	1	
R386	EXBV8V473J	COMBI.R-R 47K	1	
R387	EXBV8V102J	COMBI.R-R 1K	1	
R388	EXBV8V473J	COMBI.R-R 47K	1	
R389	EXBV8V102J	COMBI.R-R 1K	1	
R390	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R391,92	D1H833040002	COMBI.R-R 33	2	
R393	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R394	EXBV8V101J	COMBI.R-R 100	1	
R396-00	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	5	
R401-04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R405	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R406	EXBV8V102J	COMBI.R-R 1K	1	
R407-11	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	5	
R412-15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R416-21	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	6	
R422-25	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R426	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R428,29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R452	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R500	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R501,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R503	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R554	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R555,56	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R558,59	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R562,63	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R566	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R567	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R569	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R571	VLP0173	COIL	1	J0JGC0000015
R575	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R577-79	D1H833040002	COMBI.R-R 33	3	
R580-89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	10	
R590,91	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R592-01	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	10	
R603,04	D1H833040002	COMBI.R-R 33	2	
R608	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R611	VLP0173	COIL	1	J0JGC0000015
R612	EXBV8V102J	COMBI.R-R 1K	1	
R613,14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R615,16	D1H833040002	COMBI.R-R 33	2	
R617	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R618	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R619	D1H833040002	COMBI.R-R 33	1	
R620,21	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R622,23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R624	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R625	D1H833040002	COMBI.R-R 33	1	
R626	EXBV8V102J	COMBI.R-R 1K	1	
R627	D1H833040002	COMBI.R-R 33	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R628-30	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R631	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R634,35	D1H833040002	COMBI.R-R 33	2	
R636,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R640	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R641	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R650	EXBV8V102J	COMBI.R-R 1K	1	
R651	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R652	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R653	D1H833040002	COMBI.R-R 33	1	
R654	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R655	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R656	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R657	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R658	D1H833040002	COMBI.R-R 33	1	
R659	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R660,61	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R662	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R663	D1H833040002	COMBI.R-R 33	1	
R664	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R665	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R666	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R667	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R668	D1H833040002	COMBI.R-R 33	1	
R670	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R671	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R672,73	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R674	EXBV8V102J	COMBI.R-R 1K	1	
R676	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R678,79	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R680	EXBV8V473J	COMBI.R-R 47K	1	
R681,82	D1H833040002	COMBI.R-R 33	2	
R684	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
TG1-G7	EYF6CU	TEST POINT	7	
TP50,51	EYF6CU	TEST POINT	2	
TP250,51	EYF6CU	TEST POINT	2	
TP302	EYF6CU	TEST POINT	1	
TP304	EYF6CU	TEST POINT	1	
TP370,71	EYF6CU	TEST POINT	2	
TP378	EYF6CU	TEST POINT	1	
TP381	EYF6CU	TEST POINT	1	
TP450	EYF6CU	TEST POINT	1	
TP507,08	EYF6CU	TEST POINT	2	
X150	VSX0907	CRYSTAL OSCILLATOR	1	H4G1805A0003
X550	H1A3715B0001	CRYSTAL OSCILLATOR	1	
X551	H1A3705B0001	CRYSTAL OSCILLATOR	1	
X650	H0J921400004	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E2	VEP83625B	V OUT SYS P.C.BOARD	1	(RTL)
C1-C5	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C6-13	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	8	
C30,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C32	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C33	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C34	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C35-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	19	
C54	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C55,56	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C57	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C150,51	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C152-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C155,56	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C157-68	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C230-47	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	18	
C300-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C304,05	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C306-08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C309	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C310	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C311-19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C320-22	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	3	
C327	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C329	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C331	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C332-40	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C341-43	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	3	
C344-46	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C347-51	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	5	
C352-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C355	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C356	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C357	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C358	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C359	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C360	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C361	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C362	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C363	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C364,65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C430,31	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C432,33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C434	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C435-39	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C440	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C441	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C442	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C443	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C444	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C445	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
C446	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
C447	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C449	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C450-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C454	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C500,01	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C502,03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C504	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C506,07	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C508	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C509,10	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C511	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C512	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C513,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C515	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C518	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C519	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C520,21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C522,23	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C524-31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C535	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C600-02	VCK0152	C.CAPACITOR CH 16V 10U	3	F1L1C1060016
C603-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C607	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C608-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C615	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C616	VCK0152	C.CAPACITOR CH 16V 10U	1	F1L1C1060016
C617-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C621	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C622	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	F1J1H561A025
C623	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C624	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C625	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C626	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C627	VCK0152	C.CAPACITOR CH 16V 10U	1	F1L1C1060016
C628	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C629	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C630-33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C634	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C635	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D430	MA142K	DIODE	1	
D500-03	MA3J14300L	DIODE	4	
D505-07	MA3J14300L	DIODE	3	
D508	LN1271RAL	DIODE	1	
D509	MA3J14300L	DIODE	1	
D600-05	MA3J14300L	DIODE	6	
FL300-02	J0E3005B0002	FILTER	3	
FL430	VLF1354	FILTER	1	
IC30	C1ZBZ0002319	IC	1	
IC31	IDTLVC16245F	IC	1	
IC33	IDTLVC16245F	IC	1	
IC36	C0JBAZ001880	IC	1	
IC37	C0CBABD00005	IC	1	
IC38	DS90CR218MTD	IC	1	C0ZBZ0000468
IC39	DS90LV048AC	IC	1	
IC40,41	C3ABQG000045	IC	2	
IC42	C0JBAZ001880	IC	1	
IC45	C3ABQG000045	IC	1	
IC150	C1ZBZ0002432	IC	1	
IC154	DS90CR217MTD	IC	1	C0ZBZ0000466
IC230	C1ZBZ0002432	IC	1	
IC232,33	C3ABRG000011	IC	2	
IC236	C1AB00001228	IC	1	
IC300,01	C0CBAAD00023	IC	2	
IC302	C1AB00001858	IC	1	
IC303-05	AD8055AR	IC	3	C0ABGB000013
IC306	LT1129CS8	IC	1	
IC307	LT1175CS8	IC	1	
IC308,09	TC7W53FU	IC	2	
IC310	ADV7128KR80	IC	1	
IC311	AD589JR	IC	1	
IC312	LT1129CS8	IC	1	
IC313	AD8184AR	IC	1	
IC430	C0JBAA000175	IC	1	
IC431	ADV7128KR80	IC	1	
IC432	AD589JR	IC	1	
IC433	AD8055AR	IC	1	C0ABGB000013
IC434	NJM2534V	IC	1	
IC500	C2DBML000004	IC	1	
IC501	C0EBE0000213	IC	1	
IC502	C0JBAA000174	IC	1	
IC503	C0JBAZ000851	IC	1	
IC504	C0JBAB000350	IC	1	
IC600	C3FBMD000050	IC	1	
IC601	TA75W558FU	IC	1	C0ABBA000042
IC602	C0JBAZ001713	IC	1	
IC604,05	TC7WH125FU	IC	2	
IC606	C0BBBB000006	IC	1	
IC610	C0CBADD00003	IC	1	
IC611	C1AB00000936	IC	1	
IC613	TC7WH125FU	IC	1	
IC614	C0JBAZ001121	IC	1	
IC617	TC7WH125FU	IC	1	
IC619	C0JBAZ001121	IC	1	
IC621	NJM2068MD	IC	1	C0ABBB000031
IC623	C0CBADD00003	IC	1	
IC628	SN75C1168NS	IC	1	
IC629	XC62DN5002M	IC	1	
ID0	VVVSI4280B	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4286D	SOFTWARE	1	DOWNLOAD ONLY
ID2	VVVSI4233A	SOFTWARE	1	DOWNLOAD ONLY
L1-L5	VLP0183	COIL	5	J0JKC0000007

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L311-14	VLQ0319K1R0	COIL 1.0UH	4	
L430	VLQ0163J180	COIL 18UH	1	G1C180J00001
L431	VLQ0163J120	COIL 12UH	1	G1C120J00001
L500,01	VLQ0163J470	COIL 47UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P150	VJS4064N160E	CONNECTOR (FEMALE)	1	K1KAG0A00006
P500	K1KA10A00303	CONNECTOR (MALE)	1	
P501	VJS3791B020	CONNECTOR (FEMALE)	1	
Q300-02	2SA1532-B	TRANSISTOR	3	
Q303-05	2SD601A-R	TRANSISTOR	3	
Q306-08	XN4501	TRANSISTOR-RESISTOR	3	
Q430	2SA1532-B	TRANSISTOR	1	
Q431	2SD601A-R	TRANSISTOR	1	
Q432	XN4501	TRANSISTOR-RESISTOR	1	
Q433-36	2SA1532-B	TRANSISTOR	4	
Q437	2SD601A-R	TRANSISTOR	1	
QR500-03	UNR521300L	TRANSISTOR	4	
R1	EXBV8V102J	COMBI.R-R 1K	1	
R30-35	D1H833040002	COMBI.R-R 33	6	
R36-46	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	11	
R47,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R49,50	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R52-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R57	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R59,60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R62,63	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R64	D1H833040002	COMBI.R-R 33	1	
R65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R66,67	D1H833040002	COMBI.R-R 33	2	
R68	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R69-72	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R73-76	D1H833040002	COMBI.R-R 33	4	
R77	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R78,79	D1H833040002	COMBI.R-R 33	2	
R80,81	EXBV8V102J	COMBI.R-R 1K	2	
R82	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R83,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R85,86	D1H833040002	COMBI.R-R 33	2	
R87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R90-93	ERJ3RBD101	M.RESISTOR CH 1/16W 100	4	
R94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R95,96	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R99	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R100	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R101,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R103,04	D1H833040002	COMBI.R-R 33	2	
R106-09	D1H833040002	COMBI.R-R 33	4	
R110	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R111	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R113	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R114	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R120	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R150-52	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R153	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R154-56	D1H833040002	COMBI.R-R 33	3	
R157,58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R159-63	D1H833040002	COMBI.R-R 33	5	
R164	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R165-69	D1H833040002	COMBI.R-R 33	5	
R170	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R171	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R177-79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R185,86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R187	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R188	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R190-92	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R193	D1H833040002	COMBI.R-R 33	1	
R230-32	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R233	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R234,35	D1H833040002	COMBI.R-R 33	2	
R236	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R237,38	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R239,40	D1H833040002	COMBI.R-R 33	2	
R241,42	EXBV8V102J	COMBI.R-R 1K	2	
R243-47	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R248,49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R250	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R251	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R252	D1H833040002	COMBI.R-R 33	1	
R253-57	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R258	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R300	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R301-04	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R306,07	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R310,11	ERJ3RBD331	M.RESISTOR CH 1/16W 330	2	
R312	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R313,14	ERJ3RED100	M.RESISTOR CH 1/16W 10	2	
R315-17	ERJ3RBD301	M.RESISTOR CH 1/16W 300	3	
R321-23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R324-26	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R327	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R328,29	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R330	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R331	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R332	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R333	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R334	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R335-38	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	4	
R339-41	ERJ3RBD241	M.RESISTOR CH 1/16W 240	3	
R342-44	ERJ3RED910	M.RESISTOR CH 1/16W 91	3	
R345	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R347	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R349	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R351	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R352	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R353	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R354	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R355	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R356	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R357	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R358	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R359	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R360-62	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	3	
R375-77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R378,79	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	2	
R380	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R382	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R383	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R384	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R385	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R386	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R387	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R430,31	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R432	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R433	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R434	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R435	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R436,37	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R438	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R439	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R440	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R441	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R442	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R443	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R444	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R445	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R446	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R447	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R448	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R449	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R450	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R451	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R454	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R457,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R459	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R460	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R461	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R462,63	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R464	ERJ3RED300	M.RESISTOR CH 1/16W 30	1	
R465	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R466	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R468	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R469	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R470	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R500	D0GZ103J0001	M.RESISTOR CH 10K	1	
R501	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R502	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R503	D1H833040002	COMBI.R-R 33	1	
R504	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R505	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R506-11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R513	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R515	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R516	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R517	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R518	D1H833040002	COMBI.R-R 33	1	
R519-22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R524	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R525	D0GZ103J0001	M.RESISTOR CH 10K	1	
R526	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R527	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R528	D1H833040002	COMBI.R-R 33	1	
R529	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R530,31	D1H833040002	COMBI.R-R 33	2	
R532	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R533	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R534,35	D1H833040002	COMBI.R-R 33	2	
R537	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R538	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R539	D1H833040002	COMBI.R-R 33	1	
R543-47	D1H833040002	COMBI.R-R 33	5	
R548,49	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R550	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R551	EXBV8V102J	COMBI.R-R 1K	1	
R552	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R553-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R559,60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R561	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R562	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R563	EXBV8V473J	COMBI.R-R 47K	1	
R564	D1H833040002	COMBI.R-R 33	1	
R565	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R566	D1H833040002	COMBI.R-R 33	1	
R567	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R568	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R569	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R570	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R571,72	D0GZ103J0001	M.RESISTOR CH 10K	2	
R573	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R600	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R601	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R602	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R603	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R604	EXBV8V473J	COMBI.R-R 47K	1	
R605	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R606	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R607	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609,10	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R611	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R612,13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R614	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R615	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R616	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R617	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R618,19	EXBV8V473J	COMBI.R-R 47K	2	
R621	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R622	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R623	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R625	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R626	D1H833040002	COMBI.R-R 33	1	
R627	EXBV8V473J	COMBI.R-R 47K	1	
R628	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R629,30	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R632	D1H833040002	COMBI.R-R 33	1	
R633	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R634	EXBV8V473J	COMBI.R-R 47K	1	
R635,36	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R637	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R638	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R639	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R640	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R641	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R642	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R643	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R644	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R645	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R646	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R647	D1H833040002	COMBI.R-R 33	1	
R648	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R649	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R650	EXBV8V102J	COMBI.R-R 1K	1	
R651	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R652	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R653	EXBV8V473J	COMBI.R-R 47K	1	
R654	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R655	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R656-59	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R660-62	D1H833040002	COMBI.R-R 33	3	
R663,64	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
RY1	VSY2176	RELAY	1	K6B2CDA00045
SW1	VSS0367-02B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
VR300-07	EVM7JGA00B13	V.RESISTOR 1K	8	
VR430,31	EVM7JGA00B13	V.RESISTOR 1K	2	
X500	H0J921400004	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E4	VEP85214B	RF/EQ P.C.BOARD	1	(RTL)
C1-C4	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C6	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C7	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C8-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C101,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C103-06	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C108	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C110-22	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	13	
C123-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C201,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C205-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C211,12	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C213,14	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	2	
C215	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C301-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C311	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C312,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C315-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C319	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C320	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C321	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C322	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C323	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C324	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C325	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C326-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C351,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C353	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C354	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C355	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C356	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C359	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C361-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C401-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C411	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C412,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C415-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C419	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C420	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C421	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C422	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C423	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C424	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C425	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C426-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C451,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C453	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C454	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C455	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C456	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C459	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C461-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C501-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C511	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C512,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C515-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C519	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C520	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C521	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C522	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C523	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C524	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C525	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C527-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C551-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C561	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C562,63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C565-68	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C569	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C570	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C571	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C572	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C573	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C574	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C575	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C577-80	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C601-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C611	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C612,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C615-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C619	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C620	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C621	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C622	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C623	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C624	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C625	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C627-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C701	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C702	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C703-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C708-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C711	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C731	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C732	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C733-36	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C738-40	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C741	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C761	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C762	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C763-66	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C768-70	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C771	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C801	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C802	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C803-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C806	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C807-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C819	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C820-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C826	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C827-31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C834,35	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C836	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C837,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C901	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C902	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C903-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C906	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C907-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C919	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C920-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C926	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C928	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C930,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C935	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C937,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C939,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C941,42	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1001	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1002	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1003-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1006	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1007-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C1019	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1020-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C1026	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1028	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1030,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1035	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1037,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1101	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1102	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1103-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1106	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1107-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C1119	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1120-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1126	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1128	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1130,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1135	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1137,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1139,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1201	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1202	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1203-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1206	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1207-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1219	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1220-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C1226	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1228	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1230,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1235	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1237,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1239,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1301-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C1311-13	F1L1A2260013	C.CAPACITOR CH 10V 22U	3	
C1314	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C1315	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
C1317-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1321	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
C1323,24	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C1325	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1327-29	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1330	EEFCD0J330R	E.CAPACITOR 6.3V 33U	1	
C1331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D1	MA3J14300L	DIODE	1	
D301	MA3S132E0L	DIODE	1	
D401	MA3S132E0L	DIODE	1	
D501	MA3S132E0L	DIODE	1	
D551	MA3S132E0L	DIODE	1	
D601	MA3S132E0L	DIODE	1	
D1301	MA142K	DIODE	1	
D1302	MA29W-A	DIODE	1	MA2C029WA
IC1	C0JBAA000102	IC	1	
IC2	C0JBAZ000525	IC	1	
IC3	TVHC244FT	IC	1	
IC4,C5	TVHC164FT	IC	2	
IC6	TVHC126FT	IC	1	
IC7	TC74VHC32F	IC	1	C0JBAE000081
IC8	C0JBAB000196	IC	1	
IC9	TVHC00FT	IC	1	
IC101,02	C0JBAS000075	IC	2	
IC103	C0ABEB000023	IC	1	
IC104	M62370GP	IC	1	C0FBBD000082
IC105-07	C0ABFB000012	IC	3	
IC201	TVHC126FT	IC	1	
IC202	DS90LV048AC	IC	1	
IC203	TLCX04F	IC	1	
IC204	C0JBAF000224	IC	1	
IC206	DS90LV047AC	IC	1	
IC301	NJM1496V	IC	1	
IC302	UPC1663GV	IC	1	C0ABAB000078
IC303	C0JBAS000075	IC	1	
IC351	UPC1663GV	IC	1	C0ABAB000078
IC401	NJM1496V	IC	1	
IC402	UPC1663GV	IC	1	C0ABAB000078
IC403	C0JBAS000075	IC	1	
IC451	UPC1663GV	IC	1	C0ABAB000078
IC501	NJM1496V	IC	1	
IC502	UPC1663GV	IC	1	C0ABAB000078
IC551	NJM1496V	IC	1	
IC552	UPC1663GV	IC	1	C0ABAB000078
IC601	NJM1496V	IC	1	
IC602	UPC1663GV	IC	1	C0ABAB000078
IC701	UPC1663GV	IC	1	C0ABAB000078
IC731	UPC1663GV	IC	1	C0ABAB000078
IC761	UPC1663GV	IC	1	C0ABAB000078
IC801	MN673798	IC	1	
IC802	C0ABBB000158	IC	1	
IC803	DS90LV047AC	IC	1	
IC804	C0JBAF000315	IC	1	
IC805,06	C0JBAZ000852	IC	2	
IC901	MN673798	IC	1	
IC902	C0ABBB000158	IC	1	
IC904	C0ABFB000012	IC	1	
IC1001	MN673798	IC	1	
IC1002	C0ABBB000158	IC	1	
IC1003	DS90LV047AC	IC	1	
IC1101	MN673798	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1102	C0ABBB000158	IC	1	
IC1201	MN673798	IC	1	
IC1202	C0ABBB000158	IC	1	
IC1203	DS90LV047AC	IC	1	
IC1301	LT1175CS8	IC	1	
IC1303	LT1086CM	IC	1	C0CBAYG00001
IC1304,05	C0CBADD00003	IC	2	
L301	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L302	VLQ0163JR68	COIL 0.68UH	1	G1CR68J00004
L351	VLQ0163J8R2	COIL 8.2UH	1	
L352	VLQ0163J2R2	COIL 2.2UH	1	G1C2R2J00009
L353	VLQ0163J1R5	COIL 1.5UH	1	
L354	VLQ077168NM	COIL	1	
L401	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L402	VLQ0163JR68	COIL 0.68UH	1	G1CR68J00004
L451	VLQ0163J8R2	COIL 8.2UH	1	
L452	VLQ0163J2R2	COIL 2.2UH	1	G1C2R2J00009
L453	VLQ0163J1R5	COIL 1.5UH	1	
L454	VLQ077168NM	COIL	1	
L501	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L502	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L551	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L552	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L601	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L602	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L701	VLQ0163J5R6	COIL 5.6UH	1	
L731	VLQ0163J5R6	COIL 5.6UH	1	
L761	VLQ0163J5R6	COIL 5.6UH	1	
L1301-05	VLP0183	COIL	5	J0JKC0000007
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	VJS3791B020	CONNECTOR (FEMALE)	1	
P4	K1KA08B00147	CONNECTOR (FEMALE)	1	
Q1	2SB1218A0L	TRANSISTOR	1	
Q2	2SD1819A-R	TRANSISTOR	1	
Q3	XP0431200L	TRANSISTOR	1	
Q201,02	2SC3930	TRANSISTOR	2	
Q203,04	2SD601A	TRANSISTOR	2	
Q205,06	2SB1218A0L	TRANSISTOR	2	
Q301	XP6534	TRANSISTOR-RESISTOR	1	
Q302	2SC3930	TRANSISTOR	1	
Q303	XP6501	TRANSISTOR-RESISTOR	1	
Q304,05	2SD1979	TRANSISTOR	2	
Q306,07	2SC3930	TRANSISTOR	2	
Q351	XP6534	TRANSISTOR-RESISTOR	1	
Q401	XP6534	TRANSISTOR-RESISTOR	1	
Q402	2SC3930	TRANSISTOR	1	
Q403	XP6501	TRANSISTOR-RESISTOR	1	
Q404,05	2SD1979	TRANSISTOR	2	
Q406,07	2SC3930	TRANSISTOR	2	
Q451	XP6534	TRANSISTOR-RESISTOR	1	
Q501	XP6534	TRANSISTOR-RESISTOR	1	
Q502	2SC3930	TRANSISTOR	1	
Q503	XP6501	TRANSISTOR-RESISTOR	1	
Q504,05	2SD1979	TRANSISTOR	2	
Q506,07	2SC3930	TRANSISTOR	2	
Q551	XP6534	TRANSISTOR-RESISTOR	1	
Q552	2SC3930	TRANSISTOR	1	
Q553	XP6501	TRANSISTOR-RESISTOR	1	
Q554,55	2SD1979	TRANSISTOR	2	
Q556,57	2SC3930	TRANSISTOR	2	
Q601	XP6534	TRANSISTOR-RESISTOR	1	
Q602	2SC3930	TRANSISTOR	1	
Q603	XP6501	TRANSISTOR-RESISTOR	1	
Q604,05	2SD1979	TRANSISTOR	2	
Q606,07	2SC3930	TRANSISTOR	2	
Q701	2SC3930	TRANSISTOR	1	
Q702	2SA153200L	TRANSISTOR	1	
Q703	2SD1979	TRANSISTOR	1	
Q731	2SC3930	TRANSISTOR	1	
Q732	2SA153200L	TRANSISTOR	1	
Q733	2SD1979	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q761	2SC3930	TRANSISTOR	1	
Q762	2SA153200L	TRANSISTOR	1	
Q763	2SD1979	TRANSISTOR	1	
Q801	XP0450100L	TRANSISTOR	1	
Q802	2SD1819A-R	TRANSISTOR	1	
Q803	2SB1218A0L	TRANSISTOR	1	
Q901	XP0450100L	TRANSISTOR	1	
Q1001	XP0450100L	TRANSISTOR	1	
Q1101	XP0450100L	TRANSISTOR	1	
Q1201	XP0450100L	TRANSISTOR	1	
Q1301-03	2SB710A	TRANSISTOR	3	
Q1304-06	2SD602A-R	TRANSISTOR	3	
Q1307	2SD601A	TRANSISTOR	1	
QR351,52	UN5212	TRANSISTOR-RESISTOR	2	
QR1302-04	UNR511100L	TRANSISTOR	3	
QR1305-07	UNR521100L	TRANSISTOR	3	
QR1308-10	UNR511100L	TRANSISTOR	3	
R1-R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4,R5	EXBV8V473J	COMBI.R-R 47K	2	
R6	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R7,R8	EXBV8V101J	COMBI.R-R 100	2	
R9	EXBV8V473J	COMBI.R-R 47K	1	
R10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R11	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R12	EXBV8V473J	COMBI.R-R 47K	1	
R13	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R15	EXBV8V473J	COMBI.R-R 47K	1	
R16-18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R19,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R22,23	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R25	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R26	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R27-34	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	8	
R101-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R104,05	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R106	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R107	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R108-10	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	3	
R112	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R114-26	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	13	
R127,28	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R129,30	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R131,32	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R133	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R134	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R135	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R136	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R137-39	D0GB123JA002	M.RESISTOR CH 1/16W 12K	3	
R140-42	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	3	
R143	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R144	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R145	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R146	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R147	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R148-54	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	7	
R155-58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R159,60	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R161,62	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R163,64	D0GB123JA002	M.RESISTOR CH 1/16W 12K	2	
R165	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R166	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R167	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R168	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R169-71	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	3	
R172	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R173	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R174	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R175-80	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	6	
R181-84	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R202,03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R205-07	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R208-11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R212,13	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R214,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R216-18	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R219	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R220	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R221	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R222-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R225,26	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R227,28	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R229,30	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R231,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R233,34	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R301,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R303,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R305,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R307	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R309,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R311	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R312	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R314	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R315	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R316	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R317	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R318	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R319,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R321,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R323	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R327	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R328,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R330	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R331	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R332	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R333	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R334-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R337	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R351,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R353	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R354	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R357	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R358	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R359	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R360	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R361	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R362	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R363	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R365	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R366	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R367	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R370,71	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R403,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R405,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R407	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R408	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R409,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R411	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R412	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R413	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R414	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R415	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R416	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R417	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R418	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R419,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R421,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R423	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R424,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R426	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R427	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R428,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R430	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R432	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R433	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R434-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R437	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R451,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R453	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R454	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R457	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R458	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R459	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R460	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R461	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R462	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R464	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R465	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R467	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R470	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R501,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R503,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R505,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R507	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R508	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R509,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R511	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R512	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R513	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R514	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R515	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R516	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R517	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R518	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R519,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R521,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R523	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R527	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R528,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R530	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R532	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R533	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R534-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R537	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R551,52	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R553,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R555,56	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R557	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R558	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R559,60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R561	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R562	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R563	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R564	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R565	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R566	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R567	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R568	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R569,70	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R571,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R573	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R574,75	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R576	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R577	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R578,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R580	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R582	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R583	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R584-86	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R587	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R601,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R603,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R605,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R607	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R608	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R609,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R611	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R612	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R613	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R614	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R615	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R616	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R617	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R618	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R619,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R621,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R623	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R624,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R626	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R627	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R628,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R630	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R632	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R633	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R634-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R637	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R701	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R702	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R703	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R704	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R705	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R706	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R707	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R708	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R709	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R710	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R711	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R712	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R713	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R716	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R717	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R731	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R732	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R733	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R734	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R735	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R736	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R737	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R738	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R739	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R740	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R741	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R742	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R743	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R746	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R747	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R761	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R762	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R763	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R764	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R765	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R766	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R767	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R768	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R769	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R770	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R771	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R772	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R773	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R776	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R777	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R801	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R802	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R803	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R804	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R805	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R806	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R807	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R811	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R812	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R813	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R818,19	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R820	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R826	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R827	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R828	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R829	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R832	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R833,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R835	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R836	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R837	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R838	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R839	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R840	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R841	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R842	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R843	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R844	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R845	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R846	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R847	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R848	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R849	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R850	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R851-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R855	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R856	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R857	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R858	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R859	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R860	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R861	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R901	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R902	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R903	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R905	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R906	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R907	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R911	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R912	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R920	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R926	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R927	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R928	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R929	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R933,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R935	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R936	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R938	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R950	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R951-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R957	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R959	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R960	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R961	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R962,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R964	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R965	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1002	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1003	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1004	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1005	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1007	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1011	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1012	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1013,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1017	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1018,19	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R1020	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1026	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1027	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1028	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1029	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1033,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1035	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1036	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1038	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1049	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1050	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1051-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1057	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1059	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1060	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1061	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1101	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1102	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1103	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1105	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1106	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1107	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1111	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1112	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1113,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1117	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1120	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1126	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1127	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1128	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1129	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1133,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1135	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1136	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1138	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1150	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1151-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1157	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1159	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1160	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1161	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1162,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1164	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R1165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1201	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1202	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1203	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1204	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1205	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1206	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1207	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1211	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1212	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1213,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1216	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1220	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1222-24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1226	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1227	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1228	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1233,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1235	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1236	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1238	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1249	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1250	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1251-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1257	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1259	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1260	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1261	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1262,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1264	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R1265	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1301	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1302	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R1303	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R1304-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R1307-12	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	6	
R1319-24	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	6	
R1325-27	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R1328-31	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R1332,33	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R1334	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
RY1301	VSY2176	RELAY	1	K6B2CDA00045
SW201,02	VJP2536A003	CONNECTOR (MALE)	2	
TG1,G2	VJR0646	TEST POINT	2	D0X0R0000022
TP1-P7	EYF6CU	TEST POINT	7	
TP101-05	EYF6CU	TEST POINT	5	
TP201-05	EYF6CU	TEST POINT	5	
TP302	EYF6CU	TEST POINT	1	
TP304,05	EYF6CU	TEST POINT	2	
TP402	EYF6CU	TEST POINT	1	
TP404,05	EYF6CU	TEST POINT	2	
TP801,02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	8	
	XYN2+J6	SCREW	2	
	VWZ0212	THERMAL CONDUCTIVE TUBE	5	
	VMP6464	HEAT SINK HOLDER ANGLE A	1	
	VMP6465	HEAT SINK HOLDER ANGLE B	2	
	VSC4609	SHIELD CASE	5	
	VJS1990	CONNECTOR (FEMALE)	2	
■ E5	VEP85215A	RF/CUE P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3,C4	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C5	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C7	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C8,C9	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C10-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C14	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C15,16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C17	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C18,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C20	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C21,22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C101,02	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C103,04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C106	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C107	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C108	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C109	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C110	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C111	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C112	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C113-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C116	EEFCD1C4R7R	E.CAPACITOR 16V 4.7U	1	
C117	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C171,72	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C173,74	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C176	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C177	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C178	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C179	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C180	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C181	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C182	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C183-90	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C251,52	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C253,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C256	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C257	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C258	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C259	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C260	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C261	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C262	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C263-65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C266	EEFCD1C4R7R	E.CAPACITOR 16V 4.7U	1	
C267	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C321,22	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C323,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C326	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C327	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C328	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C329	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C330	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C332	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C333,34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C339-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C401-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C405-08	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C409-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C417	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C420	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C421	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C422,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C431-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C435-38	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C439-45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C447	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C450	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C461-64	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C465-68	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C469-75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C477	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C480	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C481	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C482	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C483	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
C484	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C501-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C505-08	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C509-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C517	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C520	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C521	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C522,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C531-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C535-38	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C539-45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C547	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C550	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C561	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C562,63	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C580	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C581	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C582,83	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C601-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C606,07	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C608	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C609,10	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C611-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C616,17	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C618,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C620	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C4002	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4003	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4004	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4005	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4006	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4007	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4008	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4009,10	F1L2J682A010	C.CAPACITOR CH100V 1P	2	
C4011	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4012	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4013	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4014	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4015	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4016,17	F1L2J682A010	C.CAPACITOR CH100V 1P	2	
C4018	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4020	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4021	ECHU1C822JB	P.CAPACITOR 16V 8200P	1	
C4022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4023	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4024	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4026	F1K2J271A014	C.CAPACITOR CH 10V 270P	1	
C4027	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4028	EEVHP0J470	E.CAPACITOR 6.3V 47U	1	
C4029	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C4030,31	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4032	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4033	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4103,04	ECUX1C394KBN	C.CAPACITOR CH 16V 0.39U	2	
C4105,06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4107-09	ECHU1C104J	P.CAPACITOR 16V 0.1U	3	
C4110,11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4112	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4113,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4115	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4116	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4117	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C4118	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4119	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4121	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4122	EEVHP1E4R7	E.CAPACITOR 25V 4.7U	1	
C4123	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C4124	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4126	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4127	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4128	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4129,30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4131	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4133	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4134	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4135	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4136	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4137	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4139	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4140	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4141	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4142	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4201-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C4207,08	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4209,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4211	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4212	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4213	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4214	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4215	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4216	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4217	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4218,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4220	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4301	EEVHP1E4R7	E.CAPACITOR 25V 4.7U	1	
C4305,06	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	2	
C4308	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4309,10	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4311	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4313	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4314,15	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	2	
C4316,17	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4320-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C4325-28	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C4329	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4330	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4334	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C4338,39	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4343	ECUX1C394KBN	C.CAPACITOR CH 16V 0.39U	1	
C4344,45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4346	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4347	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D101-03	MA152WK	DIODE	3	
D171-73	MA152WK	DIODE	3	
D4001,02	MA142K	DIODE	2	
D4201	MA716	DIODE	1	
D4202	MA157A	DIODE	1	
FL4001	G2A193C00001	COIL	1	
FL4002	VLF1466B223	LINE FILTER	1	
FL4101	VLF1069	FILTER	1	G4ZZ00000278
FL4301-03	VLF1466B223	LINE FILTER	3	
IC1-C3	C0JBAB000541	IC	3	
IC4	TVHC00FT	IC	1	
IC5	C0JBAB000007	IC	1	
IC7-12	TC4S30F	IC	6	C0JBAZ000429
IC101	LT1175CS8	IC	1	
IC251	LT1175CS8	IC	1	
IC401	UPC5102GS030	IC	1	C1ZBZ0001316
IC402	UPC2726T	IC	1	
IC431	UPC5102GS030	IC	1	C1ZBZ0001316
IC432	UPC2726T	IC	1	
IC461	UPC5102GS030	IC	1	C1ZBZ0001316
IC462	UPC2726T	IC	1	
IC501	UPC5102GS030	IC	1	C1ZBZ0001316
IC502	UPC2726T	IC	1	
IC531	UPC5102GS030	IC	1	C1ZBZ0001316
IC532	UPC2726T	IC	1	
IC601,02	C0CBADD00003	IC	2	
IC4001	C0ABBB000124	IC	1	
IC4102	NJM78L09UA	IC	1	C0CBAHC00002
IC4103	C0JBAR000379	IC	1	
IC4104	TA75W558FU	IC	1	C0ABBA000042
IC4105	THC4052FT	IC	1	
IC4106	C1BB00000746	IC	1	
IC4107	C0JBAB000350	IC	1	
IC4108,09	TA75W558FU	IC	2	C0ABBA000042
IC4201	TA75W558FU	IC	1	C0ABBA000042
IC4203	C0DBZGH00001	IC	1	
IC4204	NJM79L05UA	IC	1	C0CBBDC00001
IC4205	TVHC244FT	IC	1	
IC4206	C0CBABC00049	IC	1	
IC4207	C0FBZH000011	IC	1	
IC4209	TA75W558FU	IC	1	C0ABBA000042
IC4302,03	TA75W558FU	IC	2	C0ABBA000042
IC4308	C0JBAR000379	IC	1	
IC4309	TA75W558FU	IC	1	C0ABBA000042
IC4313	TVHT244FT	IC	1	
L101,02	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L171,72	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L251,52	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L321,22	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L401	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L461	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L501	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L560,61	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L580,81	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L601-05	VLP0183	COIL	5	J0JKC0000007
L4001	VLQ0651K391	COIL 390UH	1	G1C391KA0013
L4002	VLQ0423J472	COIL 4700UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	VJP4064L140	CONNECTOR (MALE)	1	K1KBE0B00003
P2	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P3	VJS3900A024	CONNECTOR (FEMALE)	1	
P4	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P4001	VJP3125B009	CONNECTOR (MALE)	1	K1KA09B00055
Q1	2SA153200L	TRANSISTOR	1	
Q2	XP0431200L	TRANSISTOR	1	
Q3	XP0460100L	TRANSISTOR	1	
Q4,Q5	2SA153200L	TRANSISTOR	2	
Q6	XP0431200L	TRANSISTOR	1	
Q7-Q9	2SA153200L	TRANSISTOR	3	
Q101,02	2SC3935	TRANSISTOR	2	
Q103	XP4506	TRANSISTOR-RESISTOR	1	
Q104	2SC3935	TRANSISTOR	1	
Q106	2SC4536	TRANSISTOR	1	
Q107	2SA153200L	TRANSISTOR	1	
Q108	XP0150400L	TRANSISTOR	1	
Q109	2SK508K512	TRANSISTOR	1	
Q110	2SC4536	TRANSISTOR	1	
Q111	2SA153200L	TRANSISTOR	1	
Q112	XP0150400L	TRANSISTOR	1	
Q113	2SK508K512	TRANSISTOR	1	
Q114	2SC4536	TRANSISTOR	1	
Q116	2SC4536	TRANSISTOR	1	
Q117	2SC3935	TRANSISTOR	1	
Q171,72	2SC3935	TRANSISTOR	2	
Q173	XP4506	TRANSISTOR-RESISTOR	1	
Q174	2SC3935	TRANSISTOR	1	
Q176	2SC4536	TRANSISTOR	1	
Q177	2SA153200L	TRANSISTOR	1	
Q178	XP0150400L	TRANSISTOR	1	
Q179	2SK508K512	TRANSISTOR	1	
Q180	2SC4536	TRANSISTOR	1	
Q181	2SA153200L	TRANSISTOR	1	
Q182	XP0150400L	TRANSISTOR	1	
Q183	2SK508K512	TRANSISTOR	1	
Q184	2SC4536	TRANSISTOR	1	
Q186	2SC4536	TRANSISTOR	1	
Q187	2SC3935	TRANSISTOR	1	
Q251,52	2SC3935	TRANSISTOR	2	
Q254	2SC3935	TRANSISTOR	1	
Q256	2SC4536	TRANSISTOR	1	
Q257	2SA153200L	TRANSISTOR	1	
Q259	2SK508K512	TRANSISTOR	1	
Q260	2SC4536	TRANSISTOR	1	
Q261	2SA153200L	TRANSISTOR	1	
Q263	2SK508K512	TRANSISTOR	1	
Q264	2SC4536	TRANSISTOR	1	
Q266	2SC4536	TRANSISTOR	1	
Q267	2SC3935	TRANSISTOR	1	
Q321,22	2SC3935	TRANSISTOR	2	
Q324	2SC3935	TRANSISTOR	1	
Q326	2SC4536	TRANSISTOR	1	
Q327	2SA153200L	TRANSISTOR	1	
Q329	2SK508K512	TRANSISTOR	1	
Q330	2SC4536	TRANSISTOR	1	
Q331	2SA153200L	TRANSISTOR	1	
Q333	2SK508K512	TRANSISTOR	1	
Q334	2SC4536	TRANSISTOR	1	
Q336	2SC4536	TRANSISTOR	1	
Q337	2SC3935	TRANSISTOR	1	
Q401,02	XP4506	TRANSISTOR-RESISTOR	2	
Q403	XP6534	TRANSISTOR-RESISTOR	1	
Q405	XP6534	TRANSISTOR-RESISTOR	1	
Q431	XP4506	TRANSISTOR-RESISTOR	1	
Q435	XP6534	TRANSISTOR-RESISTOR	1	
Q461,62	XP4506	TRANSISTOR-RESISTOR	2	
Q463	XP6534	TRANSISTOR-RESISTOR	1	
Q464	XP0150400L	TRANSISTOR	1	
Q465	XP6534	TRANSISTOR-RESISTOR	1	
Q501,02	XP4506	TRANSISTOR-RESISTOR	2	
Q503	XP6534	TRANSISTOR-RESISTOR	1	
Q505	XP6534	TRANSISTOR-RESISTOR	1	
Q531	XP4506	TRANSISTOR-RESISTOR	1	
Q535	XP6534	TRANSISTOR-RESISTOR	1	
Q560,61	2SC3735	TRANSISTOR	2	
Q580,81	2SC3735	TRANSISTOR	2	
Q601,02	2SB710A	TRANSISTOR	2	
Q4001	2SB779-R	TRANSISTOR	1	
Q4002	2SD1819A-R	TRANSISTOR	1	
Q4003	2SD874-R	TRANSISTOR	1	
Q4004	2SB779-R	TRANSISTOR	1	
Q4005	2SD1819A-R	TRANSISTOR	1	
Q4006	2SD874-R	TRANSISTOR	1	
Q4007	2SD1979	TRANSISTOR	1	
Q4008	2SB792-R	TRANSISTOR	1	
Q4009,10	2SD1149-R	TRANSISTOR	2	
Q4011,12	2SD1979	TRANSISTOR	2	
Q4201	2SD1979	TRANSISTOR	1	
QR601,02	UNR521100L	TRANSISTOR	2	
QR4001,02	UNR511300L	TRANSISTOR	2	
QR4003	UNR521300L	TRANSISTOR	1	
QR4004	UNR511300L	TRANSISTOR	1	
QR4005,06	UNR521300L	TRANSISTOR	2	
QR4007	UNR511300L	TRANSISTOR	1	
QR4201	UNR521300L	TRANSISTOR	1	
QR4202	UNR511300L	TRANSISTOR	1	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	EXBV8V473J	COMBI.R-R 47K	1	
R3,R4	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R5	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6	EXBV8V473J	COMBI.R-R 47K	1	
R7-42	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	36	D0GB103JA002
R101,02	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R103	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R104	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R105,06	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R107-09	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R110,11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R112,13	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R114-17	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	4	
R118,19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R121	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R123	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R124	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R125	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R126	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R127	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R128	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R129	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R130	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R131	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R132	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R133	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R134	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R135	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R136	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R137	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	
R138	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R140	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R141	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R142	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R143	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R145	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R146	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R149,50	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R171,72	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R173	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R174	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R175,76	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R177-79	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R180,81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R182,83	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R184-87	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	4	
R188,89	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R191	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R192	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R193	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R194	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R195	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R196	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R197	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R198	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R199	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R200	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R201	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R202	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R203	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R204	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R205	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R206	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R207	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	
R208	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R209	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R210	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R211	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R212	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R213	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R215	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R216	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R253	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R255,56	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R257,58	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R260,61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R262,63	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R268,69	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R270,71	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R272	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R273	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R274	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R275	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R276	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R277	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R279	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R280	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R281	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R282	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R283	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R284	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R285	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R287	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	
R288	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R289	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R290	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R291	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R292	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R293,94	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R295	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R296	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R299,00	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R323	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R325,26	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R327,28	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R330,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R332,33	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R338,39	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R340,41	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R342	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R343	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R344	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R345	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R346	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R347	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R349	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R350	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R351	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R352	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R353	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R355	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R357	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	
R358	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R359	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R360	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R361	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R362	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R363,64	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R365	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R366	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R369,70	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R403-06	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R407	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R408,09	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R410,11	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R412,13	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R414	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R417,18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R419,20	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R421,22	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R423,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R425,26	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R428,29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R431,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R433-36	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R437	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R438,39	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R440,41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R442,43	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R444	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R447,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R449,50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R451,52	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R453,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R455,56	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R457,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R459,60	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R461,62	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R463-66	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R468,69	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R470,71	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R472,73	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R474	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R477,78	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R479,80	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R481,82	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R483,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R485,86	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R487	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R488,89	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R490,91	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R501,02	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R503-06	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R507	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R508,09	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R510,11	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R512,13	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R514	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R517,18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R519,20	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R521,22	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R523,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R525,26	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R527	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R528,29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R531,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R533-36	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R537	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R538,39	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R540,41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R542,43	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R544	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R547,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R549,50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R551,52	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R553,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R555,56	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R560	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R561	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R562	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R563	ERJ8GEYJ270	M.RESISTOR CH 1/8W 27	1	
R564	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R565	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R580	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R581	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R582	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R583	ERJ8GEYJ270	M.RESISTOR CH 1/8W 27	1	
R584	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R585	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R601,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R605,06	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R701,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4004	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4005	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4006	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4007	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4008	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4009	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4011	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4012	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4013	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4014	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4015	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4016	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4017	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4018	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4024	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4025	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4026	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4027	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4028	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4029	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4030	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4031	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4032	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R4033	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4034	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4035	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4036	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4037,38	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4039	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4040	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4042,43	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4044	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4045	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4048	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4049	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4101,02	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4105	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4106	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4107	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4108	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R4109	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4110	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4111	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4112	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4113	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4114	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4116	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4117	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4119,20	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4122-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4125	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4126	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4127	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4128	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4129	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4130	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4131	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4132	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4135	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4136	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4137	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4138	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4139	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4140	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4201	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4202	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4203	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4206	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4208	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4209	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4210	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4211	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4212	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4213	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4216	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4217	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4218	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4301	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4306	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R4307	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4309	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R4310	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4312	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4315	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4316	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4318	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4319,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4322	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4324	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4327	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4330	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4332	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4335	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4340	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4344	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4346	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
T4001,02	VLT0729	TRANSFORMER	2	G4ZZ00000358
TG1	VJR0646	TEST POINT	1	D0X0R0000022
TG4005	EYF6CU	TEST POINT	1	
TG4101	EYF6CU	TEST POINT	1	
TG4203	EYF6CU	TEST POINT	1	
TP1,P2	EYF6CU	TEST POINT	2	
TP4001-04	EYF6CU	TEST POINT	4	
TP4101,02	EYF6CU	TEST POINT	2	
TP4201,02	EYF6CU	TEST POINT	2	
VR4001	VRV0161B503	V.RESISTOR 50K	1	
VR4002	VRV0161B103	V.RESISTOR 10K	1	
VR4103	VRV0161B503	V.RESISTOR 50K	1	
VR4301,02	VRV0161B502	V.RESISTOR 5K	2	
VR4305,06	VRV0161B103	V.RESISTOR 10K	2	
		MISCELLANEOUS		

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP7961	RF PB MOUNT ANGLE	2	
	VSC5040	HEAD BUFF SHIELD (UPPER)	1	
	VSC5041	HEAD BUFF SHIELD (MIDDLE)	1	
	VSC5042	P.C.BOARD SHIELD (LOWER)	1	
	XTV3+6FFR	SCREW	2	
	XYN2+J6	SCREW	2	
	VSC5583	EARTH HOLDER ANGLE	1	
	XSN26+3	SCREW	1	
	VMZ3026	SHIELD PROTECT SHEET	1	
	VEE9862	EARTH CABLE	1	
■ E6	VEP84393B	APROC P.C.BOARD	1	(RTL)
C4002-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4006,07	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4051-63	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	13	
C4101-05	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C4106	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4107-11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C4112	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C4113	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4151	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4152	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C4153	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4154	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C4155	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4156	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C4157-59	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4160,61	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4164-67	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4170,71	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4172-75	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4178-86	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	9	
C4187	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4188-90	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4191	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4193-95	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4196,97	EEVHB0J330	E.CAPACITOR 6.3V 33U	2	
C4198,99	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4201-04	ECQV1H105JL	P.CAPACITOR 50V 1U	4	
C4213,14	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4215-18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4219,20	F2H0J4700003	E.CAPACITOR 6.3V 47U	2	
C4221-24	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4225,26	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4227,28	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4229-32	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	4	
C4233-42	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	10	
C4243,44	F2H0J4700003	E.CAPACITOR 6.3V 47U	2	
C4245-48	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4249	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4250-53	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4254,55	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4256	F2H0J4700003	E.CAPACITOR 6.3V 47U	1	
C4265-68	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4269-72	ECHU1C472JB	P.CAPACITOR 16V 4700P	4	
C4273-80	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	8	
C4281-84	EEVHP0J100	E.CAPACITOR 6.3V 10U	4	
C4401-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4405-08	EEVHB1C100	E.CAPACITOR 16V 10U	4	
C4409-12	EEVHB1C220	E.CAPACITOR 16V 22U	4	
C4414,15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4417,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4420,21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4423,24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4425-28	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	4	
C4429-32	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C4433,34	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4435	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4437	EEVHB1C220	E.CAPACITOR 16V 22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4439	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4440	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4441	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4442	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4443,44	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4445,46	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4447,48	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4449-52	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4453-56	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	4	
C4457	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4458-65	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	8	
C4466-69	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4601	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C4602,03	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4608,09	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4613-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4617,18	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4619,20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4621,22	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4623	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4624,25	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4626,27	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4628	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4630,31	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4632	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4633,34	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4635,36	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4637	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4801,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4803,04	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4805,06	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C4807,08	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4809,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4811,12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4813,14	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4815,16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4817	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4818,19	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4820	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4821	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4823	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4825	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4827,28	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4829-32	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4833-36	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4837,38	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C4839,40	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4841,42	D4ED1220A006	VARISTOR	2	
D4201-03	MA716	DIODE	3	
D4601	MA716	DIODE	1	
D4602	MA147	DIODE	1	
D4603	MA716	DIODE	1	
D4604-06	MA142WK	DIODE	3	
D4607	MA716	DIODE	1	
D4608,09	MA142WA	DIODE	2	
FL4101	VLF1466B223	LINE FILTER	1	
IC4003	TVHC244FT	IC	1	
IC4004	C1ZBZ0001555	IC	1	
IC4006	C0EBE0000236	IC	1	
IC4007	C1ZBZ0002372	IC	1	
IC4008	TVHT244FT	IC	1	
IC4057-59	TVHT244FT	IC	3	
IC4060,61	TVHC244FT	IC	2	
IC4105,06	SN74S1051NS	IC	2	
IC4109-11	C0JBAZ000852	IC	3	
IC4112	TLCX245FT	IC	1	
IC4114-16	TVHT244FT	IC	3	
IC4151,52	C0JBAB000422	IC	2	
IC4155	TVHT244FT	IC	1	
IC4156	C0CBADD00003	IC	1	
IC4158	TLCX245FT	IC	1	
IC4160	MC74HC4046AF	IC	1	C0JBAZ000153

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4163	C5AB00000006	IC	1	
IC4164	C0ABHA000020	IC	1	
IC4166	TLCX245FT	IC	1	
IC4167	TVHC244FT	IC	1	
IC4169,70	C5AB00000006	IC	2	
IC4171	C3ABQG000045	IC	1	
IC4172	C5AB00000006	IC	1	
IC4173	TVHC244FT	IC	1	
IC4174,75	C0ZBZ0000830	IC	2	
IC4205-08	TA75W558FU	IC	4	C0ABBA000042
IC4209	XC62AP5002M	IC	1	C0CBADD00005
IC4210	XC62DN5002M	IC	1	
IC4211-14	THC4052FT	IC	4	
IC4219	XC62AP5002M	IC	1	C0CBADD00005
IC4220	XC62DN5002M	IC	1	
IC4221-24	C0FBBG000033	IC	4	
IC4225-28	TA75W558FU	IC	4	C0ABBA000042
IC4229-32	THC4052FT	IC	4	
IC4233	XC62AP5002M	IC	1	C0CBADD00005
IC4242-45	TA75W558FU	IC	4	C0ABBA000042
IC4401-04	C0ABBB000184	IC	4	
IC4409,10	C0FBZK000006	IC	2	
IC4411	C0CBABE00013	IC	1	
IC4412-15	C0ABBB000184	IC	4	
IC4420-23	THC4052FT	IC	4	
IC4601,02	C0JBAR000379	IC	2	
IC4603	TA75W558FU	IC	1	C0ABBA000042
IC4606,07	TC4W53FU	IC	2	
IC4613	TA75W558FU	IC	1	C0ABBA000042
IC4615	TA75W558FU	IC	1	C0ABBA000042
IC4617	TA75W558FU	IC	1	C0ABBA000042
IC4618	THC4052FT	IC	1	
IC4620	THC4052FT	IC	1	
IC4622	TA75W558FU	IC	1	C0ABBA000042
IC4624	THC4052FT	IC	1	
IC4626	THC4052FT	IC	1	
IC4632,33	C0JBAR000379	IC	2	
IC4636	XC62AP5002M	IC	1	C0CBADD00005
IC4637	XC62DN5002M	IC	1	
IC4639	TA75W558FU	IC	1	C0ABBA000042
IC4640	XC62AP5002M	IC	1	C0CBADD00005
IC4641	XC62DN5002M	IC	1	
IC4642	TA75W558FU	IC	1	C0ABBA000042
IC4644	XC62AP5002M	IC	1	C0CBADD00005
IC4645	XC62DN5002M	IC	1	
IC4646	THC4052FT	IC	1	
IC4801	TA75W558FU	IC	1	C0ABBA000042
IC4805	C1BB00000360	IC	1	
IC4806,07	NJM4556AM	IC	2	C0ABBB000042
ID0	VVVSI4283A	SOFTWARE	1	DOWNLOAD ONLY
L4151,52	VLF1151A132	COIL	2	
P4001	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P4002	K1KA08B00147	CONNECTOR (FEMALE)	1	
Q4201-04	2SD1979	TRANSISTOR	4	
Q4601-04	2SB1219A-R	TRANSISTOR	4	
Q4801	2SD602A-R	TRANSISTOR	1	
Q4802	2SB710A-RS	TRANSISTOR	1	
Q4803,04	2SD1979	TRANSISTOR	2	
Q4805,06	2SD1328	TRANSISTOR	2	
QR4201-04	UNR521300L	TRANSISTOR	4	
QR4205-08	UNR511300L	TRANSISTOR	4	
QR4601,02	UNR521300L	TRANSISTOR	2	
R4003	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4005-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4009	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4010	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4011	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4012	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4013	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4015	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4016	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4017	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4021	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
R4026	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4028	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4029	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4032	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4034	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4051	EXBV8V102J	COMBI.R-R 1K	1	
R4052	D1H833040002	COMBI.R-R 33	1	
R4053	EXBV8V102J	COMBI.R-R 1K	1	
R4054,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4056	D1H833040002	COMBI.R-R 33	1	
R4057-61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R4062	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4063	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4064	ERJ3GEYJ510	M.RESISTOR CH 1/16W 51	1	
R4065	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4066	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4067-73	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	7	
R4101-03	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R4104,05	D1H847240002	COMBI.R-R 4.7K	2	
R4112-14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4115	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4116	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4151	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4152	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4159	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4160	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4162	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4163,64	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4166	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4168	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4169,70	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R4171	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4172	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4173,74	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4175	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4176	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4178	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4179-81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4201-04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4205-08	ERJ3GEYJ114	M.RESISTOR CH 1/16W 110K	4	
R4209-12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4213-16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R4217-20	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4221	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4222	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4223	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4224	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4225	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4226	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4227	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4228	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4229	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4230	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4231	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4232	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4233	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4234	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4235	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4236	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4237	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4238	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4239	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4240	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4241	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4242	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4243	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4244	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4245	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4246	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4247	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4248	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4249-52	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	4	
R4253	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4255	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4256	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4257	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4258	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4259	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4260	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4261	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4262	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4263	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4264	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4265	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4266	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4267	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4268	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4269	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4270	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4271	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4272	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4273	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4274	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4275	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4276	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4277	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4278	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4279	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4280	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4281-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4285-88	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4289,90	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4291-94	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	4	
R4295-98	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	4	
R4299-02	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	4	
R4303-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4307	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4308	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4309	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4310	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4311	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4312	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4313	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4314	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4315	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4316	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4317	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4318	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4319-22	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	4	
R4323-26	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4327-30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R4331-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4335-38	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	4	
R4401-12	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	12	
R4413-16	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	4	
R4417-24	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4425-32	ERJ3RBD331	M.RESISTOR CH 1/16W 330	8	
R4433,34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4435,36	D1H84704A008	COMBI.R-R 47	2	
R4437,38	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4439,40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4441,42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4443	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4444	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4445	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4446-48	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4450	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4452	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4453	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4457	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4458-69	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	12	
R4470-77	ERJ3RBD201	M.RESISTOR CH 1/16W 200	8	
R4478-86	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	9	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4487	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4488	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4489	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4490	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4491	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4492	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4493	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4494	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4495	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4496	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4497	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4498	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4499	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4500	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4501	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4502	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4503	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4504	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4505	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4506	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4507	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4508	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4509	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4510	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4511	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4512	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4513	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4601	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4602-10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	9	
R4612	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4613	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R4614	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4617,18	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4619	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4620-23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4624	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4626	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4628,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4636	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4637	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4638	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4639	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4640	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4641	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4642	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4643	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4646,47	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	2	
R4648	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4649	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4650	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4651	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4652	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4653	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4654	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4655	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4656	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4657	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4658	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4659	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4660	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4661	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4662,63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4667	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4668	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4669	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4670	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4671	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4672	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4675-78	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4679,80	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	2	
R4681-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4685,86	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	2	
R4687	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4688,89	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	2	
R4690	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4692	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4694	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4695	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4696	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4697	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4698,99	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4701	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4702	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4703	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4704	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4706	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4707	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4708,09	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4710	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4712-15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4801,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4803,04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4805,06	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4807,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4809	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4811-13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4814	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4815	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R4818,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4821	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4823	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4825,26	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4829,30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4831,32	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R4833,34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4835,36	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4837,38	ERJ3GEYJ432	M.RESISTOR CH 1/16W 4.3K	2	
R4839,40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4841	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R4842	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R4843	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R4844	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R4845,46	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4847,48	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4849	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4850	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4851	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4852	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4853-58	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
TG4155-57	EYF6CU	TEST POINT	3	
TG4201	EYF6CU	TEST POINT	1	
TG4401,02	EYF6CU	TEST POINT	2	
TG4601	EYF6CU	TEST POINT	1	
TP4001-04	EYF6CU	TEST POINT	4	
TP4055,56	EYF6CU	TEST POINT	2	
TP4151-53	EYF6CU	TEST POINT	3	
TP4602-07	EYF6CU	TEST POINT	6	
VR4201-04	VRV0161B103	V.RESISTOR 10K	4	
VR4401-04	VRV0161B502	V.RESISTOR 5K	4	
X4151	VSX0519	CRYSTAL OSCILLATOR	1	H0D160500011
X4152	H4G2455B0005	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E7	VEP84368B	A I/O P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4001	ECA1CHG221	E.CAPACITOR 16V 220U	1	
C4101,02	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4103,04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4105,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4107,08	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4109,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4111-18	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	8	
C4119,20	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4121,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C4123-30	EEVHB1C470P	E.CAPACITOR 16V 47U	8	
C4201,02	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4203,04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4205,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4207,08	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4209,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4211-18	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	8	
C4219,20	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4221,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C4223-30	EEVHB1C470P	E.CAPACITOR 16V 47U	8	
C4300-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C4304,05	EEVHB1A330	E.CAPACITOR 10V 33U	2	
C4306-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	F1J1E104A082
C4310,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4312-15	EEVHP1C100	E.CAPACITOR 16V 10U	4	
C4316-19	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	4	
C4320-23	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4326-29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4330,31	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	2	
C4400-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C4404,05	EEVHB1A330	E.CAPACITOR 10V 33U	2	
C4406-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	F1J1E104A082
C4410,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4412-15	EEVHP1C100	E.CAPACITOR 16V 10U	4	
C4416-19	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	4	
C4420-23	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4426-29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4430,31	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	2	
D4300,01	MA152WA	DIODE	2	
D4302,03	MA152WK	DIODE	2	
D4304	MA716	DIODE	1	
D4400,01	MA152WA	DIODE	2	
D4402,03	MA152WK	DIODE	2	
D4404	MA716	DIODE	1	
IC4101	TA75W558FU	IC	1	C0ABBA000042
IC4102	NJM4556AM	IC	1	C0ABBB000042
IC4103	TA75W558FU	IC	1	C0ABBA000042
IC4104	NJM4556AM	IC	1	C0ABBB000042
IC4201	TA75W558FU	IC	1	C0ABBA000042
IC4202	NJM4556AM	IC	1	C0ABBB000042
IC4203	TA75W558FU	IC	1	C0ABBA000042
IC4204	NJM4556AM	IC	1	C0ABBB000042
IC4300,01	AQV212SX	IC	2	K6G1AKB00012
IC4302,03	K6G4AKB00004	IC	2	
IC4304	XC62AP5002M	IC	1	C0CBADD00005
IC4305,06	NJM2122M	IC	2	
IC4307,08	TA75W558FU	IC	2	C0ABBA000042
IC4309	XC62DN5002M	IC	1	
IC4400,01	AQV212SX	IC	2	K6G1AKB00012
IC4402,03	K6G4AKB00004	IC	2	
IC4404	XC62AP5002M	IC	1	C0CBADD00005
IC4405,06	NJM2122M	IC	2	
IC4407,08	TA75W558FU	IC	2	C0ABBA000042
IC4409	XC62DN5002M	IC	1	
P4101	VJS3421A020	CONNECTOR (FEMALE)	1	K1MN20A00027
P4102	VJP3600F030K	CONNECTOR (MALE)	1	
P4103	K1KA03A00017	CONNECTOR (MALE)	1	
P4301	VJP3600F030K	CONNECTOR (MALE)	1	
P4303	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
Q4101	2SD602A-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4102	2SB710A-RS	TRANSISTOR	1	
Q4103-06	2SD1328	TRANSISTOR	4	
Q4201	2SD602A-R	TRANSISTOR	1	
Q4202	2SB710A-RS	TRANSISTOR	1	
Q4203-06	2SD1328	TRANSISTOR	4	
QR4300-09	UNR521300L	TRANSISTOR	10	
QR4400-09	UNR521300L	TRANSISTOR	10	
R4001-30	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	30	
R4031	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4101,02	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4103,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4105,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4107,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4109,10	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4111-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4119-22	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4123,24	ERJ3RBD121	M.RESISTOR CH 1/16W 120	2	
R4125-28	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4131-34	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4135-40	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	6	
R4141-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4145,46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4201,02	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4203,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4205,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4209,10	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4211-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4219-22	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4223,24	ERJ3RBD121	M.RESISTOR CH 1/16W 120	2	
R4225-28	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4231-34	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4235-40	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	6	
R4241-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4245,46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4301	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4303	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4304,05	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4306,07	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4308	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4310	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4312,13	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4314-21	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	8	
R4322-25	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	4	
R4326	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4328	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4329	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4330,31	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R4332-35	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4336	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4337	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4338	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4339	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4340,41	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4342-45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	
R4346-49	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R4350-55	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4356,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4358,59	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4362,63	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4364,65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R4366-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	D0YDR0000005
R4401	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4403	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4404,05	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4406	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4407	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4408	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4409	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4412,13	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4414-21	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	8	
R4422-25	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4426	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4428	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4429	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4430,31	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R4432-35	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4436	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4437	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4438	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4439	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4440,41	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4442-45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	
R4446-49	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R4450-55	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4456,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4458,59	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4462,63	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4464,65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R4466-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	D0YDR0000005
VR4101,02	EVM7JGA00B52	V.RESISTOR 500	2	
VR4201,02	EVM7JGA00B52	V.RESISTOR 500	2	
■ E9	VEP82250A	MECHA I/F P.C.BOARD	1	(RTL)
C4	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C9	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C12	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C13	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C16	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C18,19	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C21,22	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C23	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C300	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C301	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C302-04	EEVHB1C470P	E.CAPACITOR 16V 47U	3	
C305-09	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C310-12	EEVHB1C470P	E.CAPACITOR 16V 47U	3	
C313	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C314	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C315-21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C400	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C401	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C403	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C404	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C405-07	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
C500	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C501	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C502,03	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C504,05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C506,07	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C508,09	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C510,11	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C512,13	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C514,15	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C516,17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C518,19	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C520	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C521	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C522	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C523	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C524	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C525	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C526	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C527	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C528,29	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C530,31	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C532,33	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C534,35	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C536,37	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C538,39	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C540,41	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C542,43	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C544,45	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C546,47	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C600,01	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C602	ECUX1H123KBV	C.CAPACITOR CH 50V 0.012U	1	
C603,04	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	2	
C606	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C607	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C608	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C609	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C610	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C611	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C612	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C613	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C614	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C615	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C616	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C700-02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C703	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C704	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C705,06	EEVHB1C220	E.CAPACITOR 16V 22U	2	
D1	MA147	DIODE	1	
D300	MA2Q73800L	DIODE	1	
D301	MA8075-M	DIODE	1	
D400	MA142K	DIODE	1	
D401-03	MA2Q73800L	DIODE	3	
D500-11	MA2Q73800L	DIODE	12	
D512,13	MA147	DIODE	2	
D700,01	MA147	DIODE	2	
IC2	C0ABBB000179	IC	1	
IC3	0P177GS	IC	1	
IC4	C0ABBB000179	IC	1	
IC5	0P177GS	IC	1	
IC6	C0ABBB000179	IC	1	
IC7	C0ABBB000184	IC	1	
IC8	C0ABBB000179	IC	1	
IC14	C0JBAZ000994	IC	1	
IC15	UPC4741G2	IC	1	
IC18	C0ABBB000184	IC	1	
IC19	C0BBBA000044	IC	1	
IC300	C0ABBA000075	IC	1	
IC301	BA6238A	IC	1	C0GAK0000007
IC302-04	C0JBAZ000608	IC	3	
IC305	BA6238A	IC	1	C0GAK0000007
IC306,07	C0JBAQ000080	IC	2	
IC400	C0JBAM000052	IC	1	
IC401	C0BBBA000044	IC	1	
IC500	C0BBBA000044	IC	1	
IC501,02	AN3834S	IC	2	
IC503	C0ABBB000179	IC	1	
IC703	C0JBAZ000994	IC	1	
IC2254	TC4538BF	IC	1	
J400-03	K4CD01000007	CABLE TERMINAL	4	
L300-04	VLF1151A132	COIL	5	
P300	K1KAA0A00120	CONNECTOR (MALE)	1	
P400	VJS3801D015	CONNECTOR (FEMALE)	1	
P401,02	VJP3172D005	CONNECTOR (MALE)	2	K1KA05B00053
P403	K1KA02B00075	CONNECTOR (MALE)	1	
P404	K1KA03B00102	CONNECTOR (MALE)	1	
P405,06	K1KA02B00075	CONNECTOR (MALE)	2	
P407	VJP1243T	CONNECTOR (MALE) 3P	1	K1KA03B00012
P408	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P409	K1KA03B00102	CONNECTOR (MALE)	1	
P410	K1KA02B00075	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P411	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P412	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P413	K1KA06A00031	CONNECTOR (MALE)	1	
P414	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P415,16	VJS3813C017	CONNECTOR (FEMALE)	2	K1MN17B00012
P417,18	VJP3172D004	CONNECTOR (MALE)	2	K1KA04B00007
P419	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P420	VJS3422B015	CONNECTOR (FEMALE)	1	
P421	VJS3422B019	CONNECTOR (FEMALE)	1	
P422,23	VJP3172D002	CONNECTOR (MALE)	2	K1KA02B00051
Q1	2SB1218A-R	TRANSISTOR	1	
Q100-07	B1DZED000002	TRANSISTOR	8	
Q300	2SD601A	TRANSISTOR	1	
Q301	2SB936A-Q	TRANSISTOR	1	
Q400,01	2SB766	TRANSISTOR	2	
Q500-05	2SD1624-S	TRANSISTOR	6	
Q700	2SD601A	TRANSISTOR	1	
Q701,02	2SB0709A0L	TRANSISTOR	2	
Q703	2SD601A	TRANSISTOR	1	
Q704	2SB0709A0L	TRANSISTOR	1	
Q705	2SD601A	TRANSISTOR	1	
QR100-11	UNR521300L	TRANSISTOR	12	
QR400,01	UNR521400L	TRANSISTOR-RESISTOR	2	
QR500-03	UN5215	TRANSISTOR-RESISTOR	4	
QR700	UNR521300L	TRANSISTOR	1	
QR701	UNR511300L	TRANSISTOR	1	
QR702	UN5215	TRANSISTOR-RESISTOR	1	
QR703	UNR511500L	TRANSISTOR	1	
R3,R4	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R7	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R10	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R11,12	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R13	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R15	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R16	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R18	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R19	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R20	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R21	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R22	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R24	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R25	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R26	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R27	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R28	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R31	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R32	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R33	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R100-03	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R104-06	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R107,08	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R109	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R110,11	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R112-15	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R300	EXBV8V473J	COMBI.R-R 47K	1	
R301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R302	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R303	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R304	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R305	EXBV8V473J	COMBI.R-R 47K	1	
R306	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R307,08	EXBV8V473J	COMBI.R-R 47K	2	
R309	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R310-12	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	3	
R313	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R314	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R315-17	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R318-22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R351	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R400	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R401	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R402	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R405	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R406	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R407	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R409	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R410	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R411	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R412	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R413	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R414-17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R418	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R419	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R420	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R421,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R500-03	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R504	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R505	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R506,07	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R508	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R509	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R510	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R511	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R512	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R513,14	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R515-18	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	4	
R519-22	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	4	
R523,24	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R525-28	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R529	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R530	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R531	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R532-34	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	3	
R535-38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R539,40	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R600	ERJ3GEYJ433	M.RESISTOR CH 1/16W 43K	1	
R601	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R602	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R603,04	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R606,07	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609	ERJ3GEYJ621	M.RESISTOR CH 1/16W 620	1	
R610	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R611	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R612	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R613	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R614,15	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R616	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R617	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R618	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R619	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R620	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R621	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R622	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R623	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R624	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R700-03	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R704,05	ERJ3RBD471	M.RESISTOR CH 1/16W 470	2	
R706	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R707	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R708,09	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R710	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
VR1	EVM7JGA00B24	V.RESISTOR 20K	1	
VR2	EVM7JGA00B54	V.RESISTOR 50K	1	
VR400,01	VRV0303B203A	V.RESISTOR 20K	2	D3EC3203A002

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E10	VEP81203E	POWER 1 P.C.BOARD	1	(RTL)
■	VEP81233A	SUB POWER 1 P.C.BOARD	1	(RTL)FOR VEP81203E
⚠ C1001	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1002,03	F1BAH1020010	C.CAPACITOR 1000P	2	
⚠ C1004	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1005	VCK0262M222A	C.CAPACITOR 2200P	1	F1BAH2220002
C1006	EEUFC1H101	E.CAPACITOR 50V 100U	1	
C1007	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C1010	VCK0106K221	C.CAPACITOR 220P	1	
C1013	ECEC2WB151DB	E.CAPACITOR 450V 150U	1	
C1014	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1015	ECQE2W105KC	P.CAPACITOR 450V 1U	1	
⚠ C1016	ECQU2A154ML	P.CAPACITOR 100V 0.15U	1	
C1017	ECQF6222JZH	P.CAPACITOR 630V 2200P	1	
C1102	ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1103	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C1106	ECKD2H221KB	C.CAPACITOR 500V 220P	1	
C1107	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C1108	EEUFC1E182	E.CAPACITOR 25V 1800U	1	
C1110	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C1111-13	EEUFC1E182	E.CAPACITOR 25V 1800U	3	
C1114,15	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	2	
C1118	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1901	ECA1HXL100	E.CAPACITOR 50V 10U	1	FOR VEP81233A
C1902	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1903	ECJ2VC1H221J	C.CAPACITOR CH 50V 220P	1	FOR VEP81233A
C1904	ECQV1H684JL	P.CAPACITOR 50V 0.68U	1	FOR VEP81233A
C1905	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	FOR VEP81233A
C1906	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010 FOR VEP81233A
C1908	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	FOR VEP81233A
C1909	ECA1HXL010	E.CAPACITOR 50V 1U	1	FOR VEP81233A
C1910	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	F1J1H561A025 FOR VEP81233A
C1912	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	FOR VEP81233A
C1913	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	FOR VEP81233A
C1914	ECJ2VF1H104Z	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1915	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	FOR VEP81233A
C1916	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1917	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010 FOR VEP81233A
C1921,22	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	F1J1H103A010 FOR VEP81233A
C1923	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1924	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	FOR VEP81233A
D1001	SFPL-52	DIODE	1	
D1002	RBV606	DIODE	1	
D1003,04	SFPL-52	DIODE	2	
D1005	FML-G26S	DIODE	1	
D1006-09	MA3100-M	DIODE	4	
D1101	MA3270-M	DIODE	1	
D1103	SFPL-52	DIODE	1	
D1104	AP01C	DIODE	1	B0HADV000010
D1105	SFPL-52	DIODE	1	
D1106	D20LC20U	DIODE	1	B0HBSM000021
D1107	U1GU44	DIODE	1	
D1108	SFPL-52	DIODE	1	
D1109	MA3200-M	DIODE	1	
D1110,11	MA152K	DIODE	2	
D1112	MA3068-M	DIODE	1	
D1901,02	MA3200-M	DIODE	2	FOR VEP81233A
D1903	MA3100-M	DIODE	1	FOR VEP81233A
D1904	MA152K	DIODE	1	FOR VEP81233A
D1905	MA152WA	DIODE	1	FOR VEP81233A
D1906	MA3270-M	DIODE	1	FOR VEP81233A
D1907	MA3051-M	DIODE	1	MAZ30510ML FOR VEP81233A
D1908	MA3068-M	DIODE	1	FOR VEP81233A
D1911	MA3068-M	DIODE	1	FOR VEP81233A
D1914	MA152K	DIODE	1	FOR VEP81233A
⚠ F1001	VSF0246	FUSE	1	
IC1101	AN1431M	IC	1	
IC1901	M51951BL	IC	1	C0EAH0000030 FOR VEP81233A
IC1902	MC33262P	IC	1	C0DAZZZ00013 FOR VEP81233A
IC1903	FA5311BP	IC	1	C0DAAZZ00002 FOR VEP81233A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
J1002	VWJ0121	CABLE	1	
J1004	VWJ0121	CABLE	1	
J1101,02	VWJ0121	CABLE	2	
L1002	VLQ0861	COIL	1	
⚠ L1003,04	ELF20N015A	COIL	2	
L1007	VLP0083	COIL	1	J0JKB0000011
L1101,02	VLP0083	COIL	2	J0JKB0000011
L1106-08	VLP0336	FERRITE CORE	3	
P1001	VJP2073	CONNECTOR (MALE)	1	K1KA02A00104
P1002,03	VJP3878	CONNECTOR (MALE)	2	K1KA02B00137
P1004,05	VJP3042G003W	CONNECTOR (MALE)	2	K1KA03A00157
P1006	VJP3042G017W	CONNECTOR (MALE)	1	K1KA17A00011
P1007	VJP1149	CONNECTOR (MALE)	1	K1KA03B00084
P1101	K1KA06A00262	CONNECTOR	1	
P1901,02	VJS3042B003W	CONNECTOR (FEMALE)	2	K1KB03B00007 FOR VEP81233A
P1903	VJS3042B017W	CONNECTOR (FEMALE) 17P	1	K1KB17B00005 FOR VEP81233A
⚠ PC1101,02	B3QAZ0000030	PHOTO COUPLER	2	
Q1001	AC08FGM	DIODE	1	B2BAJR000001
⚠ Q1002	2SK1941-01R	TRANSISTOR	1	B1DEGR000002
⚠ Q1101	2SK2677-4112	TRANSISTOR	1	B1BAGU000002
Q1102	2SD601A-R	TRANSISTOR	1	
Q1103	2SB0709ALL	TRANSISTOR	1	
Q1901	XN1501	TRANSISTOR-RESISTOR	1	FOR VEP81233A
Q1903	2SJ278	TRANSISTOR	1	FOR VEP81233A
QR1901	UN2111	TRANSISTOR-RESISTOR	1	FOR VEP81233A
QR1902	UNR221300L	TRANSISTOR	1	FOR VEP81233A
QR1904	UNR221300L	TRANSISTOR	1	FOR VEP81233A
QR1905	UN2113	TRANSISTOR-RESISTOR	1	FOR VEP81233A
QR1906	UNR211200L	TRANSISTOR	1	FOR VEP81233A
QR1907	UNR221300L	TRANSISTOR	1	FOR VEP81233A
⚠ R1001	ERC12AGM334C	S.RESISTOR 1/2W 33K	1	
R1002-05	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	4	
R1006	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
⚠ R1007	ERU5TEJ100	F.RESISTOR 5W 10	1	
R1009	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1010,11	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	2	
R1012	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1013	ERX2SJR22	M.RESISTOR 2W 0.22	1	
R1014	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1017	ERG2SJ220	M.RESISTOR 2W 22	1	
R1018	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1019	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
R1020	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R1021	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1023	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	1	
R1024	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1025	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1026	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R1101	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R1102	ERX2SJR33	M.RESISTOR 2W 0.33	1	
R1104	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	1	
R1105	ERJ12YJ680	M.RESISTOR CH 1/2W 68	1	
R1108	ERG2SJ104	M.RESISTOR 2W 100K	1	
R1109	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	1	
R1110	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1111	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	D0GD221JA003
R1112	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R1114	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1115,16	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1117	ERJ6RBD622	M.RESISTOR CH 1/10W 6.2K	1	
R1118	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R1119,20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1121	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R1122	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1123	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R1124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1125	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R1127	ERG2SJ104	M.RESISTOR 2W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1901,02	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	2	FOR VEP81233A
R1903	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1904	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	FOR VEP81233A
R1905-07	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	FOR VEP81233A
R1908	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	FOR VEP81233A
R1909	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1910	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	FOR VEP81233A
R1911	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	FOR VEP81233A
R1912,13	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	2	FOR VEP81233A
R1915	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1916	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	FOR VEP81233A
R1917	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	FOR VEP81233A
R1919	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	FOR VEP81233A
R1920,21	ERJ12YJ104	M.RESISTOR CH 1/2W 100K	2	FOR VEP81233A
R1923	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	D0GD225JA003 FOR VEP81233A
R1925	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	FOR VEP81233A
R1926-28	ER050CHD1503	M.RESISTOR 150K	3	FOR VEP81233A
R1930	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003 FOR VEP81233A
R1931-33	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	FOR VEP81233A
R1934	ERJ6GEYG912	M.RESISTOR CH 1/10W 9.1K	1	FOR VEP81233A
R1935	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	FOR VEP81233A
R1936	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	FOR VEP81233A
R1938	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	D0GD221JA003 FOR VEP81233A
R1944-46	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	FOR VEP81233A
R1949,50	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	FOR VEP81233A
R1951	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005 FOR VEP81233A
R1953	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	FOR VEP81233A
⚠ T1101	G4D2C0000005	TRANSFORMER	1	
⚠ TH1101	VRT0142	THERMISTOR	1	D4DDB3310005
TP1101	VJR0646	TEST POINT	1	D0X0R0000022
		MISCELLANEOUS		
⚠	VWZ0074	INSULATION COVER	1	
⚠	VMZ2187	INSULATION COVER	1	
⚠	VMZ1608	CAPACITOR TUBE	1	
	VMP5282	TRANSISTOR CLIP	1	
	VSC4861	HEAT SINK (C)	1	
	VSC4860	HEAT SINK (B)	1	
⚠	VMZ0965	CAPACITOR COVER	2	
	VSC3434	SHIELD CASE	1	
	XYN3+F8	SCREW	4	
	XTV3+8G	SCREW	1	
	VMP5283	EARTH LUG	2	
	XYN3+F6	SCREW	2	
	VMZ2908	HEAT SINK	2	
	VMZ2969	HEAT SINK	1	
	XYN3+J8	SCREW	4	
	VSC4972	POWER CASE (B)	1	
	VMZ3453	POWER TR SHEET A	1	
■ E11	VEP81219B	POWER 2 P.C.BOARD	1	(RTL)
C1201-03	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C1204	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C1206	ECA1HXS100	E.CAPACITOR 50V 10U	1	
C1207	ECQV1H684JL	P.CAPACITOR 50V 0.68U	1	
C1208,09	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1211	VCEA1DSP680	E.CAPACITOR 20V 68U	1	
C1212	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1213	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1214,15	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1301	ECA1HHGR33	E.CAPACITOR 50V 0.33U	1	
C1302	ECA1HHGR22	E.CAPACITOR 50V 0.22U	1	
C1303,04	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1305	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1306	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1307	ECA1HHGR22	E.CAPACITOR 50V 0.22U	1	
C1308	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	
C1309	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1310	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1311	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1312	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C1313	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1314	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1316,17	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C1318,19	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1325	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1326,27	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1328,29	VCEA1DSP680	E.CAPACITOR 20V 68U	2	
C1330-33	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
C1335	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1336	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1337	VCEA1AAP221	E.CAPACITOR 10V 220U	1	F2D1A2210001
C1338	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1339	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1340	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1341	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1342	F2D1A1010002	E.CAPACITOR 10V 100U	1	
C1344	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1345	F2D1D1010001	E.CAPACITOR 20V 100U	1	
C1346	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1347,48	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1352,53	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1354	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1401	ECUM1E683KBN	C.CAPACITOR CH 25V 0.068U	1	
C1402	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1403	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C1404	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1405,06	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1411	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1412,13	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1414	VCEA1ASC4R7M	E.CAPACITOR 10V 4.7U	1	F2D1A4R70002
C1415-17	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	3	
C1418,19	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1420,21	VCEA1AAP221	E.CAPACITOR 10V 220U	2	F2D1A2210001
C1422,23	F2D1A1010002	E.CAPACITOR 10V 100U	2	
C1424,25	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1427	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
C1801	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1802	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1803	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1804	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	
C1805	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1806	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C1807	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1808	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1811	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1814,15	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1816,17	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C1818	F2D1A1010002	E.CAPACITOR 10V 100U	1	
C1819	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1820	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1821	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1822	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1823	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1824	F2D1A1010002	E.CAPACITOR 10V 100U	1	
D1201	VSD0129	DIODE	1	
D1202	SF20SC3L	DIODE	1	B0JBSD000010
D1203	MA142WK	DIODE	1	
D1204	MA142WA	DIODE	1	
D1205	MA3100-M	DIODE	1	
D1206	MA142K	DIODE	1	
D1208	MA3200-M	DIODE	1	
D1209	MA8068-M	DIODE	1	
D1211	SFPB-54	DIODE	1	B0JCMC000002
D1212	MA142K	DIODE	1	
D1213	MA8100-M	DIODE	1	
D1214	MA142WK	DIODE	1	
D1215	MA3051-H	DIODE	1	
D1216	MA142K	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1301	MA152K	DIODE	1	
D1302-06	MA142K	DIODE	5	
D1308	SFPB-54	DIODE	1	B0JCMC000002
D1309-11	DE5SC4M-4061	DIODE	3	B0JDRE000001
D1312,13	MA142K	DIODE	2	
D1314	MA8180-M	DIODE	1	
D1315	MA142K	DIODE	1	
D1316	MA8180-M	DIODE	1	
D1317	MA142K	DIODE	1	
D1318	MAZ80820HL	DIODE	1	
D1319	MA142K	DIODE	1	
D1320	MA8130-M	DIODE	1	
D1321	MA142K	DIODE	1	
D1322	MA142WA	DIODE	1	
D1323	MA142K	DIODE	1	
D1324	MA152K	DIODE	1	
D1402,03	MA142WK	DIODE	2	
D1404,05	SFPB-76V	DIODE	2	
D1406,07	MAZ80680KL	DIODE	2	
D1408	MA142WA	DIODE	1	
D1409	MA142WK	DIODE	1	
D1801	MA142K	DIODE	1	
D1802	MAZ81400ML	DIODE	1	
D1803	MA142K	DIODE	1	
D1804	MAZ80680KL	DIODE	1	
D1805	MA142K	DIODE	1	
D1806	MA142WA	DIODE	1	
D1807	MA152K	DIODE	1	
D1808,09	MA142K	DIODE	2	
D1810,11	DE5SC4M-4061	DIODE	2	B0JDRE000001
⚠ F1201	K5D103AQ0001	FUSE	1	
IC1201	C0BBBA000019	IC	1	
IC1203	UPC1093J	IC	1	C0DAEMC00002
IC1301,02	BA9743AFV	IC	2	C0DBAZC00010
IC1401	C0DBAZB00006	IC	1	
IC1801	BA9743AFV	IC	1	C0DBAZC00010
L1301,02	VLQ0655K100	COIL 10UH	2	
L1303,04	J0JBC0000023	FILTER	2	
L1305	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1306	J0JBC0000023	FILTER	1	
L1307	VLQ0859M220	COIL 22UH	1	
L1308	VLQ0859M221	COIL 220U	1	
L1309	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1310	VLQ0859M221	COIL 220U	1	
L1311	VLQ0655K220	COIL 22UH	1	
L1312	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1313	VLQ0441K220	COIL 22UH	1	
L1314,15	VLQ0655K220	COIL 22UH	2	
L1316	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1317	J0JKC0000009	FILTER	1	
L1401-04	J0JBC0000023	FILTER	4	
L1405,06	VLQ0441K1R0	COIL 1.0UH	2	
L1407	VLQ0859M100	COIL 10UH	1	
L1408	VLQ0859M220	COIL 22UH	1	
L1409	VLQ0655M3R3	COIL 3.3UH	1	
L1410	VLQ0655K100	COIL 10UH	1	
L1801	VLQ0655K100	COIL 10UH	1	
L1802,03	J0JBC0000023	FILTER	2	
L1804	VLQ0784331	COIL 330UH	1	
L1805	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1806	VLQ0859M221	COIL 220U	1	
L1807,08	VLQ0441K220	COIL 22UH	2	
L1809	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
P1201	K1KA06A00262	CONNECTOR	1	
P1202	VJP3957A002	CONNECTOR (MALE)	1	K1KA02A00169
P1203	VJP4232B030	CONNECTOR (MALE)	1	K1KA30B00031
P1204	VJP1596T	CONNECTOR (MALE)	1	K1KA03A00113
P1205	K1KA03A00017	CONNECTOR (MALE)	1	
Q1201,02	XN0121300L	TRANSISTOR-RESISTOR	2	
Q1203	XN0460100L	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1204-07	B1DGJG000005	TRANSISTOR	4	
Q1208,09	XN0440100L	TRANSISTOR	2	
Q1210	XN4501	TRANSISTOR-RESISTOR	1	
Q1211,12	2SD1819A-R	TRANSISTOR	2	
Q1301,02	XN4501	TRANSISTOR-RESISTOR	2	
Q1303,04	2SD1819A-R	TRANSISTOR	2	
Q1306,07	2SD1819A-R	TRANSISTOR	2	
Q1308	2SD1820A-R	TRANSISTOR	1	
Q1309-12	XN0440100L	TRANSISTOR	4	
Q1313	2SJ279S	TRANSISTOR	1	B1DGDG000002
Q1314	2SJ214S	TRANSISTOR	1	
Q1315	2SJ279S	TRANSISTOR	1	B1DGDG000002
Q1316,17	2SK1059-Z	TRANSISTOR	2	B1DFDG000001
Q1318,19	2SD1819A-R	TRANSISTOR	2	
Q1401-04	B1DFFD000006	FET	4	
Q1801	2SD1819A-R	TRANSISTOR	1	
Q1802	XN4501	TRANSISTOR-RESISTOR	1	
Q1803	2SD1819A-R	TRANSISTOR	1	
Q1805	2SD1819A-R	TRANSISTOR	1	
Q1807,08	XN0440100L	TRANSISTOR	2	
Q1809,10	2SJ279S	TRANSISTOR	2	B1DGDG000002
QR1201	UNR521300L	TRANSISTOR	1	
QR1202	UNR521100L	TRANSISTOR	1	
QR1203	UNR511300L	TRANSISTOR	1	
QR1204	UN5212	TRANSISTOR-RESISTOR	1	
QR1207	UN5212	TRANSISTOR-RESISTOR	1	
QR1208	UNR511300L	TRANSISTOR	1	
QR1210,11	UNR521100L	TRANSISTOR	2	
QR1301,02	UNR511200L	TRANSISTOR	2	
QR1303	UNR521100L	TRANSISTOR	1	
QR1304,05	UNR511200L	TRANSISTOR	2	
QR1306-08	UNR521100L	TRANSISTOR	3	
QR1309,10	UNR511300L	TRANSISTOR	2	
QR1801	UNR511300L	TRANSISTOR	1	
QR1802	UNR511200L	TRANSISTOR	1	
QR1803	UNR521100L	TRANSISTOR	1	
QR1804	UNR511200L	TRANSISTOR	1	
QR1805	UNR521100L	TRANSISTOR	1	
R1201	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1202-05	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R1207,08	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	2	
R1209	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1210	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1211	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1212	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1213	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1215	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1217	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1220,21	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1222	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1223	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1224	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1225	ERJ3RBD513	M.RESISTOR CH 1/16W 51K	1	
R1227,28	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1229	VRE0222J33M	M.RESISTOR	1	
R1230	VRE0222J10M	M.RESISTOR	1	
R1231,32	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R1233,34	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	2	
R1235	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R1236,37	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1238,39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1240	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R1241	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1242	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1243	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1244	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	D0GD220JA003
R1248	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1249	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R1252	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1303-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R1307,08	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R1309-12	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R1313,14	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1315	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1316	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1317	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1318	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1319,20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R1321	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1322	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1323	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1324,25	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1326	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1327-29	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R1330	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1331	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1332,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1334	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1335	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R1336	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1338	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1339,40	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1341	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1342	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1344	VRE0202H18	M.RESISTOR CH 0.18	1	
R1345,46	ERJL14KJ50M	M.RESISTOR CH 1/4W 5	2	
R1347	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1348	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1349	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1350	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1351	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1352	VRE0202HR10	M.RESISTOR CH 1	1	
R1355	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1357,58	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1359	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1360	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1364,65	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1366	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1368	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1371	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1372	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1373	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1374,75	ERJ6RBD911	M.RESISTOR CH 1/10W 910	2	
R1376	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R1377	ERJ6RBD563	M.RESISTOR CH 1/10W 56K	1	
R1378,79	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1380	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R1381	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1382	ERJ6RBD111	M.RESISTOR CH 1/10W 110	1	
R1383	ERJ6RBD362	M.RESISTOR CH 1/10W 3.6K	1	
R1384,85	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1386,87	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	D0GD121JA003
R1388	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1390	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1392	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1393	ERJ6RBD751	M.RESISTOR CH 1/10W 750	1	
R1394	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1395	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R1403	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1404	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1405	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1407,08	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1409,10	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	2	
R1416	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1417,18	VRE0202H12	M.RESISTOR CH 0.12	2	
R1419,20	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1421	ERJ6RBD432	M.RESISTOR CH 1/10W 4.3K	1	
R1422	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R1423,24	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1425	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1427	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1801,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1803,04	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	D0GD121JA003
R1805,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1807-10	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R1812	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1813	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1814	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1815	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1817	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1818	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1819	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1820	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R1821	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1822	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1823	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1824,25	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	D0GD222JA003
R1828	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1829	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R1830,31	ERJL14KJ50M	M.RESISTOR CH 1/4W 5	2	
R1832	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1833	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1834	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1835	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1838,39	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1843	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1844	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R1845	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R1846	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1847	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
R1848	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R1849	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R1850	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
T1301	VLT0925	TRANSFORMER	1	G4ZZ00000377
⚠ TH1205	VRT0148050	THERMISTOR	1	D4ZZ00000006
TH1206	VRT0143	THERMISTOR	1	
TP1301-06	EYF6CU	TEST POINT	6	
TP1401,02	EYF6CU	TEST POINT	2	
TP1801,02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	EYF52BC	FUSE HOLDER	2	
	VJR1008	EARTH LUG	4	
	VSC4859	HEAT SINK (A)	1	
	XYN3+F8	SCREW	1	
	XYN3+J8	SCREW	1	
■ E12	VEP81232B	POWER 3 P.C.BOARD	1	(RTL)
C1502	EEFCD0K330R	E.CAPACITOR 8V 33U	1	
C1503	ECA0JHG471B	E.CAPACITOR 6.3V 470U	1	
C1504	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	1	
C1505	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C1506	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1507	EEUFC1V561S	E.CAPACITOR 35V 560U	1	
C1508	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1509	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1510,11	ECA1CHG472	E.CAPACITOR 16V 4700U	2	
C1601	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1609	ECJ2VC1H222J	C.CAPACITOR CH 50V 2200P	1	
C1613	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1614	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C1616	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1620	ECJ2XC1H331J	C.CAPACITOR CH 50V 330P	1	
C1621	ECUM1H100JCN	C.CAPACITOR CH 50V 10P	1	
C1630	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1631	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1701,02	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1703	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1704,05	ECUX1H563KBN	C.CAPACITOR CH 50V 0.056U	2	
C1706,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1708,09	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1710,11	F2H1D470A004	E.CAPACITOR CH 20V 47U	2	
C1712,13	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1714,15	EEUFC1A391	E.CAPACITOR 10V 390U	2	
C1716,17	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C1718,19	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1720,21	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	2	
C1722	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1801,02	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1803	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1804,05	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	2	
C1806,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1808,09	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1810,11	F2H1D470A004	E.CAPACITOR CH 20V 47U	2	
C1812,13	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1814,15	EEUFC1A391	E.CAPACITOR 10V 390U	2	
C1816,17	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C1818,19	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1820,21	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	2	
C1822	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
D1501	MA3051-H	DIODE	1	
D1502,03	MA115	DIODE	2	
D1504	MA3270-M	DIODE	1	
D1505	NSQ03A04	DIODE	1	B0JCPE000013
D1506	MA3062M	DIODE	1	
D1507	MA142K	DIODE	1	
D1606	MAZ82200ML	DIODE	1	
D1609	MA142WK	DIODE	1	
D1610	NSQ03A04	DIODE	1	B0JCPE000013
D1611	MA142WK	DIODE	1	
D1701	MA720	DIODE	1	
D1703,04	NSQ03A04	DIODE	2	B0JCPE000013
D1705,06	MA8056-MH	DIODE	2	
D1708	MA142WK	DIODE	1	
D1710	MA720	DIODE	1	
D1711	MA142WK	DIODE	1	
D1720,21	MA8030-H	DIODE	2	
D1803,04	NSQ03A04	DIODE	2	B0JCPE000013
D1805,06	MA8056-MH	DIODE	2	
D1807	MA142WA	DIODE	1	
D1808	MA142WK	DIODE	1	
D1809,10	MA720	DIODE	2	
D1811	MA8030-H	DIODE	1	
D1813	MA8030-H	DIODE	1	
IC1501	C0ABBA000071	IC	1	
IC1602	C0DBAKG00004	IC	1	
IC1702,03	C0DBAGH00030	IC	2	
IC1801,02	C0DBAGH00030	IC	2	
JP1501-03	VJR1008	EARTH LUG	3	
L1501	G1A220F00006	COIL 22UH	1	
L1602	G1A4R7H00002	COIL 4.7UH	1	
L1603	VLQ0859M470	COIL 47UH	1	
L1604	J0JKC0000009	FILTER	1	
L1605	J0JBC0000023	FILTER	1	
L1609	G1A4R7H00002	COIL 4.7UH	1	
L1701	G1A4R7H00002	COIL 4.7UH	1	
L1702,03	J0JBC0000023	FILTER	2	
L1704,05	J0JKC0000009	FILTER	2	
L1706,07	VLQ0859M470	COIL 47UH	2	
L1709	G1A4R7H00002	COIL 4.7UH	1	
L1712	G1A4R7H00002	COIL 4.7UH	1	
L1801	G1A4R7H00002	COIL 4.7UH	1	
L1802,03	J0JBC0000023	FILTER	2	
L1804,05	J0JKC0000009	FILTER	2	
L1806,07	VLQ0859M100	COIL 10UH	2	
L1812	G1A4R7H00002	COIL 4.7UH	1	
P1501	VJP3926A024	CONNECTOR (MALE)	1	
P1502	K1KA06A00031	CONNECTOR (MALE)	1	
P1503	K1KA08A00119	CONNECTOR (MALE)	1	
Q1501	2SD601A-R	TRANSISTOR	1	
Q1502	2SC3074Y	TRANSISTOR	1	B1BADF000002
Q1503	2SB936A-Q	TRANSISTOR	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1504	2SD1819A-R	TRANSISTOR	1	
Q1602	B1DFFD000006	FET	1	
Q1701-04	B1DFFD000006	FET	4	
Q1705,06	2SD1819A-R	TRANSISTOR	2	
Q1708,09	2SD1819A-R	TRANSISTOR	2	
Q1801-04	B1DFFD000006	FET	4	
R1501	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1502,03	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	D0GD221JA003
R1504,05	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R1506	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1507	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1508	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1509	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R1510-12	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	3	
R1513	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1609	ERJL1WKJ47M	M.RESISTOR CH 1W	1	
R1619	ERJ6RED474	M.RESISTOR CH 1/10W 470K	1	
R1623	ERJ6RBD243	M.RESISTOR CH 1/10W 24K	1	
R1626	ERJ6RBD393	M.RESISTOR CH 1/10W 39K	1	
R1627	ERJ6RBD182	M.RESISTOR CH 1/10W 1.8K	1	
R1628	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R1648	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1650	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
⚠ R1659	K5H312300003	FUSE	1	
R1701,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1705,06	ERJL1WKJ47M	M.RESISTOR CH 1W	2	
R1707,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1711,12	ERJ6RED184	M.RESISTOR CH 1/10W 180K	2	
R1713	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1714	ERJ6RED154	M.RESISTOR CH 1/10W 150K	1	
R1715	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1716	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R1717,18	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1719	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1721,22	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R1723,24	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R1725	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1730,31	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R1801,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1805,06	VRE0202H22M	M.RESISTOR	2	
R1807,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1809	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1810	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1811	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1812	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1813	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1814	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1815,16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1820,21	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
T1501	VLT0889	TRANSFORMER	1	G4ZZ00000368
		MISCELLANEOUS		
	VSC5620	SHIELD A	1	
	VMP5861	P.C.B. HOLDER ANGLE (L)	1	
	VMP5862	P.C.BOARD FIX ANGLE (R)	1	
	XTV3+6F	SCREW	2	
	VKC0295	BOARD SPACER	1	
■ E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	(RTL)
P1,P2	K1KB06B00035	CONNECTOR (FEMALE)	2	
■ E14	VEP80C73B	MOTHER P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
JP1-P6	VJR1008	EARTH LUG	6	
P101	K1KA08A00441	CONNECTOR (MALE)	1	
P103-05	K1KA08A00441	CONNECTOR (MALE)	3	
P111	VJS4232A030	CONNECTOR (FEMALE)	1	K1KB30A00003
P112	VJP3926A024	CONNECTOR (MALE)	1	
P201-05	VJS4064N160E	CONNECTOR (FEMALE)	5	K1KAG0A00006
P206	VJS4064K140E	CONNECTOR (FEMALE)	1	K1KAE0A00007
P301,02	VJS3600F030K	CONNECTOR (FEMALE)	2	
P303	VJS3406D020	CONNECTOR (FEMALE)	1	K1MN20B00029
P401,02	K1MN40A00007	CONNECTOR	2	
P403	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048
		MISCELLANEOUS		
	VKC0295	BOARD SPACER	2	
	VEE1A29	SHIELD CABLE	1	
	VJF0300	A/C HEAD BINDER	1	
■ E15	VEP86343A	FRONT P.C.BOARD	1	(RTL)
C1-C3	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	3	F1J1H121A025
C4,C5	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	F1J1H101A025
C6-C8	F1L1A4760003	C.CAPACITOR CH 16V 47U	3	
C9-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C13	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C14,15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C16	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C18	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C100	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C101-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C200	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
D1-D5	MA3X15300L	DIODE	5	
D200-04	LN38GCPP	LED	5	
DP100	VSL0489	DISPLAY	1	A2BA00000191
IC1	C2CBKJ000078	IC	1	
IC2	TL7705CPSB	IC	1	C0EBS0000002
IC3	C0JBAB000350	IC	1	
IC100,01	MN12511S	IC	2	
ID0	VVVSI4330A	SOFTWARE	1	DOWNLOAD ONLY
J1	VJJ0571	JACK	1	
L1,L2	G1C101K00022	COIL 100UH	2	
P1	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048
P2	K1KA03A00017	CONNECTOR (MALE)	1	
P3	K1KA06A00031	CONNECTOR (MALE)	1	
P200	VJS4243B018	CONNECTOR (FEMALE)	1	K1MN18B00032
Q100-06	2SB710A-R	TRANSISTOR	7	
Q200-11	2SD0601ARL	TRANSISTOR	12	
QR100-06	MUN2213	TRANSISTOR-RESISTOR	7	
R3	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
⚠ R4	K5H1023A0001	FUSE	1	
R5	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6,R7	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R8,R9	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R10	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R11	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	D0GD105JA003

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R12,13	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R14-17	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	4	
R18,19	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R20-22	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	3	
R23	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R24	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R25	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R107	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R110	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R111	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R113	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R114	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R115	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R118	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R119	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R120	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R121-27	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	7	
R200-02	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	3	
R203	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R204,05	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R206	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R207	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R208-10	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	3	
R211	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R212	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R213,14	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R215	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R216	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R217,18	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R219	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R220	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R221,22	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R224	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R225	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R226	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R227,28	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R229	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R230	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R231	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
SW203	VSS0249	SWITCH	1	K0D113A00050
SW205	VSS0250	SWITCH	1	K0D112A00104
SW206	VSS0249	SWITCH	1	K0D113A00050
SW65102	EVQQS307K	SWITCH	1	
SW65105	EVQQS307K	SWITCH	1	
SW65107,08	EVQQS307K	SWITCH	2	
VR1	EVJYM0F15C23	V.RESISTOR 2K	1	
X1	H0J100500016	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VJF1360	DISPLAY HOLDER	1	
	VGQ0458	SPACER	5	
	QJT0015	GND TERMINAL	1	
■ E16	VEP83626A	V JACK P.C.BOARD	1	(RTL)
C1,C2	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3,C4	EEFCD0K330R	E.CAPACITOR 8V 33U	2	
C5,C6	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C7	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C9,10	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C12-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C17,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C19	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
C21,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C23,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C25	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C26,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C28	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
D1	MA3062M	DIODE	1	
D3,D4	MA3062M	DIODE	2	
D5	MA716	DIODE	1	
D6	MA142K	DIODE	1	
D7	MA3062M	DIODE	1	
IC1	C0CBADD00003	IC	1	
IC2	XC62DN5002M	IC	1	
J1-J3	K1QBB2AA0005	CONNECTOR	3	
J4	K2HA205A0004	JACK	1	
J5	K1QBB2AA0005	CONNECTOR	1	
L1,L2	VLP0183	COIL	2	J0JKC0000007
L3-L8	VLP0145	COIL	6	
P1,P2	VJS3421A020	CONNECTOR (FEMALE)	2	K1MN20A00027
P3	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016
Q1	XN4501	TRANSISTOR-RESISTOR	1	
Q3,Q4	XN4501	TRANSISTOR-RESISTOR	2	
Q5	2SA1532-B	TRANSISTOR	1	
Q6	XN4501	TRANSISTOR-RESISTOR	1	
Q7	2SC2295	TRANSISTOR	1	
R1	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3,R4	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R7,R8	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R9	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R11,12	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R13,14	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R17-20	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	4	
R21	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R22	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R23	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R26	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R27	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R29	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R30	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R31	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R32	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R33,34	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R35	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R36	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R37,38	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R39	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R40,41	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R42	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R43	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R44	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	1	
SW1	VSS0307	SWITCH	1	K0D122A00105
		MISCELLANEOUS		
	VMP5301	D SUB HOLDER ANGLE	1	
■ E17	VEP84394B	A JACK P.C.BOARD	1	(RTL)
C201-04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C229-32	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
J201,02	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003
J203,04	K1AB103A0007	CONNECTOR (MALE)	2	
J205,06	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003
J207,08	K1AB103A0007	CONNECTOR (MALE)	2	
L201	VLP0145	COIL	1	
L203	VLP0145	COIL	1	
L205,06	VLP0145	COIL	2	
L208	VLP0145	COIL	1	
L210	VLP0145	COIL	1	
L212	VLP0145	COIL	1	
L214,15	VLP0145	COIL	2	
L217	VLP0145	COIL	1	
L219,20	VLP0145	COIL	2	
L222	VLP0145	COIL	1	
L224,25	VLP0145	COIL	2	
L227	VLP0145	COIL	1	
L229-31	VLP0145	COIL	3	
L233	VLP0145	COIL	1	
L235,36	VLP0145	COIL	2	
L238	VLP0145	COIL	1	
L240	VLP0145	COIL	1	
P201	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
■ E18	VEP86344A	KEY P.C.BOARD	1	(RTL)
P301	VJS2582B018	CONNECTOR (FEMALE)	1	K1MN18B00028
R301,02	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R303	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R304	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R305	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R306	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R307	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R308	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R309	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R310	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R311	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R312	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R313	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R314	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R315	ERJ14YJ181	M.RESISTOR CH 1/4W 180	1	
SW301	VST0331	SWITCH	1	K0C112B00006
SW302	VSP0853A000	SWITCH	1	K0F111A00235
SW303	VSP0792	SWITCH	1	K0F111A00280
SW304	K0F111A00426	SWITCH	1	
SW305	VSP0791	SWITCH	1	K0F111A00279
SW306	VSP0790	SWITCH	1	K0F111A00278
SW307	VSP0793	SWITCH	1	K0F111A00281
SW308	VSP0789	SWITCH	1	K0F111A00283
■ E19	VEP86346A	REC VR P.C.BOARD	1	(RTL)
P65401	VJP1610T	CONNECTOR (MALE)	1	K1KA06B00059
VR65401,02	EVU023003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0E69	REC VR CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E20	VEP86347A	PB VR P.C.BOARD	1	(RTL)
P65301	VJP1611T	CONNECTOR (MALE)	1	K1KA07B00032
VR65301,02	EVU023006B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0E70	PB VR CABLE	1	
■ E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	(RTL)
C66000	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C66001	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C66002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C66003	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
IC66000	TL7705CPSB	IC	1	C0EBS0000002
P66001,02	VJS3537A024G	CONNECTOR (FEMALE)	2	K1MN24A00027
P66003	VJP1599T	CONNECTOR (MALE)	1	K1KA06A00125
P66004	VJP1600T	CONNECTOR (MALE)	1	K1KA07A00066
P66005	K1KA03A00017	CONNECTOR (MALE)	1	
R66000	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R66001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
■ E22	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	
■ E23	VEP82249B	SERVO P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C5	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C6	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C9,10	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C11,12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C16	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C17,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C19,20	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	2	
C21-24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C28,29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C30	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C100	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C101-04	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C109-11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C112-15	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C116,17	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C200	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C209,10	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C211	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C218	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C219,20	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C222	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C300-03	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C304	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C305,06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C307	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C308-14	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C315,16	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C317-21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C322	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C323	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C324,25	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C326,27	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C328	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C350-60	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	11	
C400,01	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C403-06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C407,08	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C409	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C410,11	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	2	
C412-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C417,18	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C450,51	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	F1K1C105A026
C452,53	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C454,55	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C456-58	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C700-02	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	F1J1H103A010
C703	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C704	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C705	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C706	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C707	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C708,09	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C710	F1K0J1060002	C.CAPACITOR CH6.3V 10U	1	
C711,12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C713-15	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C716	F1K0J1060002	C.CAPACITOR CH6.3V 10U	1	
C717,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C719	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C720	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C721	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C722,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C724	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C725	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C726,27	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C800-06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C807	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C808	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C809	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C810	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C811	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C812-14	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C815	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C816	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C817,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C819,20	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C900	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C901	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C902	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C903	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C904,05	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C906	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C907	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C908	EEVHB1E330P	E.CAPACITOR 25V 33U	1	
C909	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C910	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C911	EEVHB1E330P	E.CAPACITOR 25V 33U	1	
C5001,02	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5003,04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C5005	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C5006	EEVHB1E470P	E.CAPACITOR 25V 47U	1	
C5007,08	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C5009,10	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C5011,12	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C5013,14	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C5015,16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C6001	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6002	VCE0180	E.CAPACITOR 25V 100U	1	F2G1E1010003
C6003,04	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C6005	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6006,07	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C6008,09	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C6010-12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C6013	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6014	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C6015	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6016	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6017	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6018-20	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C6021,22	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	F1K1C105A026
D1-D4	MA8075-H	DIODE	4	
D5,D6	MA142K	DIODE	2	
D8	MA147	DIODE	1	
D300-02	MA147	DIODE	3	
D403,04	MA142K	DIODE	2	
D405-07	MA147	DIODE	3	
D408	MA142K	DIODE	1	
D450,51	MA142K	DIODE	2	
D800	MA142WK	DIODE	1	
D801	MA142K	DIODE	1	
D802-05	MA142WK	DIODE	4	
D806	MA147	DIODE	1	
D807,08	MA142WK	DIODE	2	
D809	MA142WA	DIODE	1	
D810	MA8051-M	DIODE	1	
D811	MA8082-H	DIODE	1	
D812	MA142WK	DIODE	1	
D813	MA142K	DIODE	1	
D814	MAZ80330HL	DIODE	1	
D815	MA8039-H	DIODE	1	MAZ80390HL
D5001,02	MA2J72800L	DIODE	2	
D5003,04	MA2Q73600L	DIODE	2	
D6001,02	MA2J72800L	DIODE	2	
D6003,04	MA2Q73600L	DIODE	2	
D6005	MA142K	DIODE	1	
IC1	TC4052BF	IC	1	
IC2	C0ABBB000179	IC	1	
IC3	C0JBAZ000994	IC	1	
IC4	TC4052BF	IC	1	
IC5-C8	C0ABBB000179	IC	4	
IC9,10	C0ABBB000184	IC	2	
IC11,12	C0BBBA000044	IC	2	
IC13	C0JBAZ000994	IC	1	
IC17	C0ABBB000184	IC	1	
IC20	C0BBBA000044	IC	1	
IC23	C0JBAB000397	IC	1	
IC24	C0JBAZ001121	IC	1	
IC26-28	C0JBAZ001121	IC	3	
IC29	C0JBAZ001003	IC	1	
IC33-35	C0ABBB000179	IC	3	
IC36,37	C0ABBA000075	IC	2	
IC38	C0BBBA000044	IC	1	
IC41	C0BBBA000044	IC	1	
IC42	C0ABBB000184	IC	1	
IC46	C0JBAF000487	IC	1	
IC47,48	C0JBAM000111	IC	2	
IC49	C0JBAZ001120	IC	1	
IC50	C0JBAM000111	IC	1	
IC51	C0JBAZ001120	IC	1	
IC52	C0JBAM000111	IC	1	
IC53	C0ABBA000075	IC	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC54	C0BBBA000044	IC	1	
IC302	MN1030F04KHF	IC	1	
IC350	X9288L7T144	IC	1	
IC351	X9144L7T100	IC	1	
IC400	M62370GP	IC	1	C0FBBD000082
IC700	AN3890FBS	IC	1	
IC701	TB6519F	IC	1	C0GBY0000011
IC900	C0CBABD00005	IC	1	
IC5001,02	MN13821-S	IC	2	
IC6001	TL1451CNS	IC	1	C0DBAMA00001
ID0	VVVSI4281A	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4289A	SOFTWARE	1	DOWNLOAD ONLY
J900-02	K4CD01000007	CABLE TERMINAL	3	
L900-04	VLF1151A132	COIL	5	
L5001,02	VLQ0407120M	COIL 12UH	2	G0A120HA0007
L5003,04	VLQ0650M151	COIL 150UH	2	G1C151MA0016
L6001,02	VLQ0650M151	COIL 150UH	2	G1C151MA0016
P300	VJS3791B020	CONNECTOR (FEMALE)	1	
P350	K1KA08B00147	CONNECTOR (FEMALE)	1	
P900,01	K1MN40A00007	CONNECTOR	2	
P902	K1KA08A00119	CONNECTOR (MALE)	1	
P903	K1KBA0A00084	CONNECTOR (FEMALE)	1	
Q450,51	2SD601A	TRANSISTOR	2	
Q700	PU3210	TRANSISTOR	1	PUA3210
Q701	PU3110	TRANSISTOR	1	PUA3110
Q702	2SB1073-R	TRANSISTOR	1	
Q703	2SD1119-R	TRANSISTOR	1	
Q704	2SB1073-R	TRANSISTOR	1	
Q705	2SD1119-R	TRANSISTOR	1	
Q706	2SB1073-R	TRANSISTOR	1	
Q707	2SD1119-R	TRANSISTOR	1	
Q800	2SB710A	TRANSISTOR	1	
Q801,02	2SB1073-R	TRANSISTOR	2	
Q5001,02	2SD1819A-R	TRANSISTOR	2	
Q5003	2SB1174-Q	TRANSISTOR	1	2SB11740Q
Q5004	2SB1073	TRANSISTOR	1	
Q5005,06	2SD1819A-R	TRANSISTOR	2	
Q6001,02	2SB1174-Q	TRANSISTOR	2	2SB11740Q
QR1-R4	UNR521300L	TRANSISTOR	4	
QR9	UNR521300L	TRANSISTOR	1	
QR700	UNR521300L	TRANSISTOR	1	
QR701	UN5217	TRANSISTOR-RESISTOR	1	
QR702	UNR521300L	TRANSISTOR	1	
QR703	UNR521400L	TRANSISTOR-RESISTOR	1	
QR800	UNR521400L	TRANSISTOR-RESISTOR	1	
QR801	UNR511300L	TRANSISTOR	1	
QR802	UNR521400L	TRANSISTOR-RESISTOR	1	
QR803	UNR521300L	TRANSISTOR	1	
QR806	UNR521300L	TRANSISTOR	1	
QR807,08	UNR521400L	TRANSISTOR-RESISTOR	2	
QR809	UNR521300L	TRANSISTOR	1	
QR810	UNR511300L	TRANSISTOR	1	
QR811-15	UNR521400L	TRANSISTOR-RESISTOR	5	
QR816	UNR511300L	TRANSISTOR	1	
QR5001,02	UNR521300L	TRANSISTOR	2	
QR6001,02	UNR511100L	TRANSISTOR	2	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R8	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R9	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R10	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R11	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R13	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R14	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R15	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R16	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R17	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R19	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R21	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R22	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R23	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R24	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R25	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R28	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R29	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R30	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R33	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R34	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R35	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R36	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R40,41	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	2	
R42,43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R46,47	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R49	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R51	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R54	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R55	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R56	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R57,58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R59	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R100	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R101	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R102	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R103	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R104	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R105	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R106	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R107	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R108	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R109	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R110	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R111	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R112	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R113	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R114	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R115	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R116-19	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	4	
R120,21	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R122-25	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R126-29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R130-33	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R134-37	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	4	
R138	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R139	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R140	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R141	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R142,43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R144,45	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R146-49	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	4	
R201	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R202	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R203	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R204	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R209	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R210	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R211	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R212	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R213,14	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R218,19	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R220,21	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R226,27	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R234,35	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R238,39	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R240,41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R242,43	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R244,45	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R300	EXBV8V470J	COMBI.R-R 47	1	
R301,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R303	EXBV8V470J	COMBI.R-R 47	1	
R304-06	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R307-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R310	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R311	EXBV8V473J	COMBI.R-R 47K	1	
R312	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R313	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R315,16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R317	EXBV8V101J	COMBI.R-R 100	1	
R318	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R320	EXBV8V470J	COMBI.R-R 47	1	
R321	EXBV8V473J	COMBI.R-R 47K	1	
R322,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R324	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R327	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R328	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R329	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R330-35	EXBV8V470J	COMBI.R-R 47	6	
R336	EXBV8V473J	COMBI.R-R 47K	1	
R337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R343	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R350	EXBV8V102J	COMBI.R-R 1K	1	
R351	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R352	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R354	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R357	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R358	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R359,60	EXBV8V470J	COMBI.R-R 47	2	
R361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R362	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R365	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R366,67	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R368	EXBV8V470J	COMBI.R-R 47	1	
R369	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R370	ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R400,01	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R402,03	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	2	
R407-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R410,11	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R412,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R414,15	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R417	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R419	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R420,21	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R422	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R423	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R424-26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R428	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R429	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R430	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R432	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R450,51	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R452	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R453,54	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R455	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R456-59	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R460,61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R700-02	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	3	
R703	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R704	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R705	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R706,07	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R708	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R709	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R710,11	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R712	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R713	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R714	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R715	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R716-18	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	3	
R719	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R720-22	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	3	
R800	EXBV8V473J	COMBI.R-R 47K	1	
R801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R802	EXBV8V473J	COMBI.R-R 47K	1	
R803	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R804	EXBV8V473J	COMBI.R-R 47K	1	
R805	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R806	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R807	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R808	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R809	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R811	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R812-15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R816	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R818	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R819	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R820	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R823	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R824	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R825	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R826	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R827,28	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R829-33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	D0GB103JA002
R834-36	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	3	
R837,38	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R839	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R840	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R841	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R842	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R843,44	ERJ8GEYJ181	M.RESISTOR CH 1/8W 180	2	
R845,46	ERJ3GEYJ155	M.RESISTOR CH 1/16W 1.5M	2	
R847,48	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	2	
R900	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R907-09	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R5001	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R5002	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R5003	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5004	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R5005-08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5009	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
⚠ R5010	K5H2523A0001	FUSE	1	
R5013,14	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R5015,16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R5017,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5019,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R5021,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5023,24	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5025,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5027-30	ERJ12YJ222	M.RESISTOR CH 1/2W 2.2K	4	
R5031,32	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R6001	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R6003,04	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R6005,06	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R6007,08	ERJ12YJ471	M.RESISTOR CH 1/2W 470	2	
R6009	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6010	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R6011	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R6012	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R6013	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6014	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R6015	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6016	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6017,18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6019	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6020	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6021	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6022,23	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6024	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6025	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R6026	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6027,28	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R6029,30	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R6031	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6032	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6033	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R6034,35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6036	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
TG450	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP104-07	EYF6CU	TEST POINT	4	
TP204,05	EYF6CU	TEST POINT	2	
TP350-53	EYF6CU	TEST POINT	4	
TP371	EYF6CU	TEST POINT	1	
TP409	EYF6CU	TEST POINT	1	
TP800,01	EYF6CU	TEST POINT	2	
TP900	EYF6CU	TEST POINT	1	
X300	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

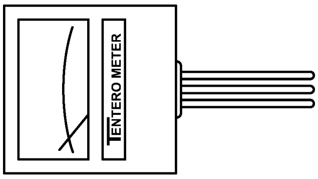
1. SERVICING FIXTURES & TOOLS

NO.	NEW	PART NO.	FIXTURE & TOOL NAME	REMARK
1		VFK1145A	Back Tension Meter	
2		VFK1149B	Post Driver	
3		VFK71A	Dial Torque Gauge (1.5cN·m)	150g
4		VFK1191A	Dial Torque Gauge (0.45cN·m)	45g
5		VFK1152	Dial Torque Gauge Adapter	
6		VFK0357	Eccentric Screwdriver (1.5mm)	
7		VFK1154	Post Height Fixture	
8		VFK1586	Neutral Position Plate	for L Cassette
9		VFK1587	Neutral Position Tool (w/ hole)	
10		VFK1588	Neutral Position Tool (w/o hole)	
11		VFK1150A	Nut Driver (5.5mm)	
12		VFK1593	Nut Driver (4.5mm)	
13		VFK1188A	Dial Tension Gauge (300mN)	30g
14		VFK0749	Froiral Grease	for plastics
15		MOR265	Morlytone Grease	for metal
16		VFK0948A	Check Light	
17		VFK1146A	Philips Driver (Fine) (00-75)	
18		VFK1147A	Philips Driver (Fine) (00-100)	
19		VFK1148A	Hex. Driver (1.5mm)	
20		VFK1178A	Hex. Driver (0.89mm)	
21		VFK1589	A/C Head Fixture	
22		VFK1209A	Torque Driver (4 cN·m-30 cN·m)	0.4 kgf·cm -3kgf·cm
23		VFK1590	CPLD Writer	
24		VFK0912	Post Axis Driver (1.5mm)	
25		VFM3580KM	DVCPRO Alignment Tape (No.1) for NTSC	or VFM3580KL
26		VFM3581KM	DVCPRO Alignment Tape (No.2) for NTSC	or VFM3581KL
27		VFM3582KM	DVCPRO Alignment Tape (No.3) for NTSC	or VFM3582KL
28		VFM3380KM	DVCPRO 50 Alignment Tape for NTSC	
29		VFM3010EDS	DV Alignment Tape (Color Bars) for NTSC	
30		VFM3000EDS	DV Alignment Tape for LISTA	
31		VFM3780KML	DVCPRO HDLP Alignment Tape (Color –bar)	
32		VFM3781KML	DVCPRO HDLP Alignment Tape (LISTA)	
33		VFM3782KML	DVCPRO HDLP Alignment Tape (X-Value)	
34		VFM3783KML	DVCPRO HDSP Alignment Tape (Noise Chancellor)	
35		AJ-CL12MP	Cleaning Tape	Via Sales Rote
36		VFK1369	Tape Beg./End Detection Cassette	or VFK1423
37		VFK1186	LISTA Cable	
38		VFK1300	A/D Board (DAQ-12 Quatech)	
39		VFK1498	Extender Board	
40		VZZ0095	Cleaning Cloth	
41		VFK1190	Hex. Wrench	
42		VFK1304A	Flash Memory Version up Tool	

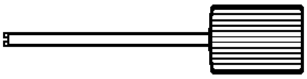
*** The following adjustment software can be downloaded from the Web Site.**

S1		VFK1481K	LISTA Software	
S2		VFK1248M	Flash Memory Version-up Software	
S3		VFK1879	CPLD Version-up Software	
S4		VFK1839A	RF Auto Adjustment Software	

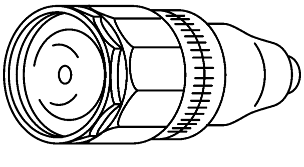
1 **VFK1145A**
Back Tension Meter



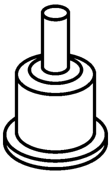
2 **VFK1149B**
Post Driver



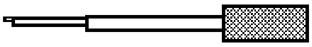
3 **VFK71A** (1.5cN·m)
4 **VFK1191A** (0.45cN·m)
Dial Torque Gauge



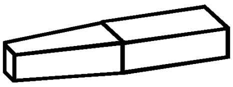
5 **VFK1152**
Dial Torque Gauge Adapter



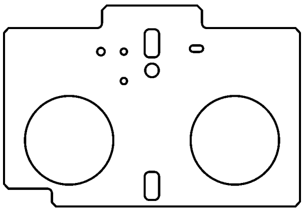
6 **VFK0357**
Eccentric Screwdriver
(1.5mm)



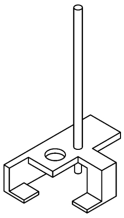
7 **VFK1154**
Post Height Fixture



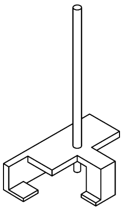
8 **VFK1586**
Neutral Position Plate
(For L Cassette)



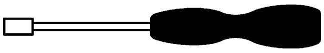
9 **VFK1587**
Neutral Position Tool
(W/ hole)



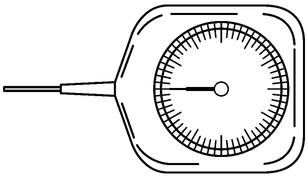
10 **VFK1588**
Neutral Position Tool
(W/o hole)



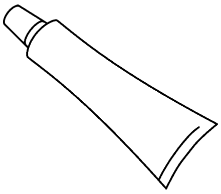
11 **VFK1150A (5.5mm)**
12 **VFK1593 (4.5mm)**
Nut Driver



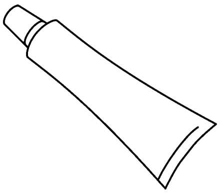
13 **VFK1188A**
Dial Tension Gauge
(300mN)



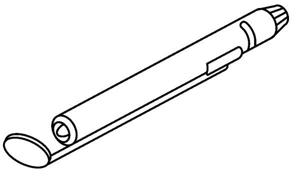
14 **VFK0749**
Froiral Grease
(for plastics)



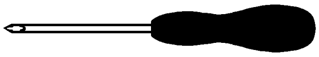
15 **MOR265**
Morlytone Grease
(for metal)



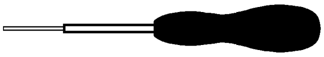
16 **VFK0948A**
Check Light



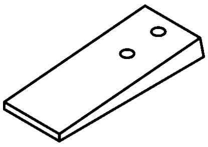
17 **VFK1146A (00-75)**
18 **VFK1147A(00-100)**
Philips Driver (Fine)



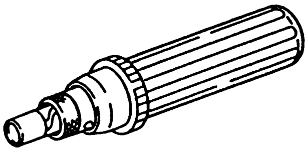
19 **VFK1148A(1.5mm)**
20 **VFK1178A(0.89mm)**
Hex. Driver



21 **VFK1589**
A/C Head Fixture

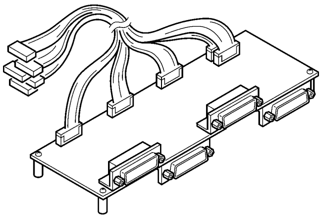


22 **VFK1209A**
Torque Driver
(4 cN·m-30 cN·m
(0.4 kgf·cm -3kgf·cm))



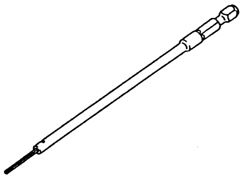
23 **VFK1590**
C PLD Writer

Cables to the boards
VFK1590P1, VFK1590P2,
VFK1590P3, VFK1590P4
and VFK1590P5 included.



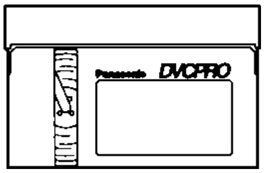
24 VFK0912

Post Axis Driver
(1.5mm)



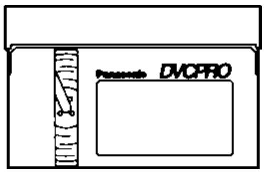
25 VFM3580KM or KL
26 VFM3581KM or KL
27 VFM3582KM or KL

DVCPRO
Alignment Tape



28 VFM3380KM

DVCPRO 50
Alignment Tape (NTSC)

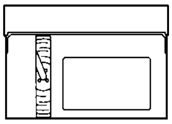


29 VFM3010EDS

DV Alignment Tape
(Color Bars) (NTSC)

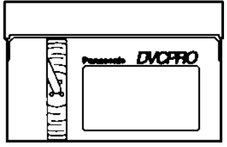
30 VFM3000EDS

DV Alignment Tape
(LISTA)



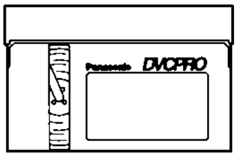
31 VFM3780KML(LP)
32 VFM3781KML(LP)
33 VFM3782KML(LP)
34 VFM3783KML(SP)

DVCPRO HD
Alignment Tape



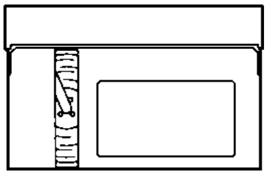
35 AJ-CL12MP

Cleaning Tape



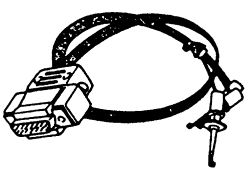
36 VFK1369

Tape Beg./End
Detection Cassette



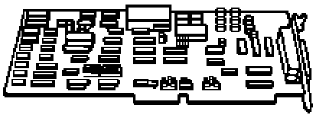
37 VFK1186

LISTA Cable



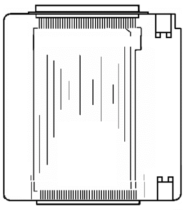
38 VFK1300

A/D Board
(Quatech DAQ-12)



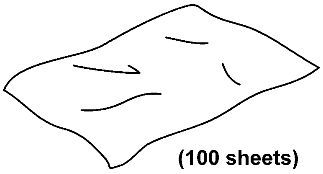
39 VFK1498

Extender Board



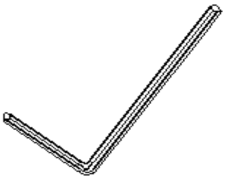
40 VZZ0095

Cleaning Cloth



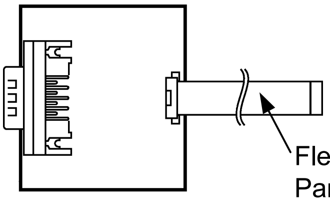
41 VFK1190

Hex Wrench



42 VFK1304A

Flash Memory Version up Tool
(VFK1304 includes the flexible cable
"VWJ20E5500L0".)



Flexible cable
Part No.: VWJ20E5500L0

2. ALIGNMENT TAPE

2-1. VFM3580KM / KL (NTSC) (25M adjustment tape No. 1)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar SMPTE(75%)	Confirmation of the composite video level	1KHz –20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
7:00	Color bar (100%)	Confirmation of the composite video level				
14:00	H sweep	Frequency characteristic			6KHz 0VU	A/C head azimuth adjustment
18:00	Bow tie (500K)	Y/C timing				
22:00	Pulse & bar	Y/C timing			300, 500, 1K 2K, 4K, 6KHz	Frequency characteristic
26:00	Area marker	Video start timing			-----	-----

2-2. VFM3581KM / KL (NTSC) (25M adjustment tape No. 2 for LISTA adjustment)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-3. VFM3582KM / KL (NTSC)
(25M adjustment tape No. 3 for X-value adjustment)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

2-4. VFM3380KM (NTSC) (50M adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (with teletext) (100%)	Confirmation of video level and teletext level	1KHz –20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
4:00	Color bar (SMPTE) (75%)	Confirmation of the video level				
7:00	Multiburst (Y/Pb/Pr)	Frequency characteristic				
10:00	Multiburst (only Y)	Y-frequency characteristic				
13:00	Bow tie	Y/C timing				
16:00	Area marker	Video start timing				

2-5. VFM3010EDS (NTSC) (DV Color Bar adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz		-----	-----

2-6. VFM3000EDS (NTSC/PAL) (DV LISTA adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	LISTA signal	Adjustment of the linearity	-----	-----	-----	-----

2-7. VFM3780KML (HD-LP)
(DVCPRO HD LP MODE adjustment tape No.1)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00-20:00	Color bar (100%)	Confirmation of video level and teletext level	1KHz –20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level

2-8. VFM3781KML (HD-LP)
(DVCPRO HD LP MODE adjustment tape No.2) (For LISTA adjustment)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00-20:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-9. VFM3782KML (HD-LP)
(DVCPRO HD LP MODE adjustment tape No.3) (For X-value adjustment)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00-20:00	Color bar (100%) w/ REF	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

2-10. VFM3783KML (HD-LP)
(DVCPRO HD LP MODE adjustment tape No.3) (For X-value adjustment)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00-10:00	Color bar (100%) w/ REF	Confirmation of Video Level	1KHz –20Db	Confirmation of the audio level	1KHz	Confirmation of cue audio.
10:00-20:00					-----	-----

3. RECOMMENDED MEASURING INSTRUMENTS

NAME	REMARK
NTSC analogue composite signal generator (with CF OUT)	
SCH meter (NTSC)	
Waveform monitor (NTSC)	
Vector scope (NTSC)	
Oscilloscope	
Digital voltmeter (D.V.M.)	
Frequency counter	
Audio noise meter	
Audio analyser	
Spectrum analyser	
HD Signal Generator	
SD Signal Generator	
HD Waveform Monitor	
SD Waveform Monitor	
HD Monitor	
SD Monitor	

4. MAINTENANCE

4-1. Maintenance Schedule

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the functions always in best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms wear parts, and their wear and deterioration cause problems. Dust and dirt also can impair stable operation. For this reason it is important to not just perform repair at the time of a problem, but to perform suitable maintenance at regular intervals.

	Part name	Part No.	Drum Rotation (hours)				
			Every 1,000	3,000	6,000	9,000	12,000
-	Cleaning tape transportation	-----	C: Every 500 hours				
-	Mechanical chassis unit	VXY1842Z1					R
1	Cylinder Unit	VEG1655		R	R	R	IM
2	Pinch Arm Unit	VXL3040	R, G	R, G	R, G	R, G	IM
3	Cleaning Arm Unit	VXL3028	R: Every 1000 hours				IM
4	S Reel Motor Unit	VEM0724			R		IM
5	T Reel Motor Unit	VEM0731			R		IM
6	Capstan Unit	VEM0717			R		IM
7	S Loading Unit	VXA7528			R, G		IM
8	T Loading Unit	VXA7530			R, G		IM
9	S4 Post Base Unit	VXA7523			R		IM
10	S Tension Arm Unit	VXL3165			R		IM
11	T5 Arm (1) Unit	VXL3164			R, G		IM
12	T6 Arm Unit	VXL3163			R		IM
13	Mode SW Unit	VES0925			R		IM
14	A/C Head 1 Unit	VED0466					IM
15	Motor Unit	VEM0726					IM
16	Reel Drive Motor Unit	VEM0585C					IM
17	Pinch Solenoid	VSJ0227					IM
18	S Brake Solenoid	VSJ0216					IM
19	T Brake Solenoid	VSJ0216					IM
20	MIC SW Base Unit	VXA7921C					IM
21	Cleaner Solenoid	VSJ0226					IM
22	Main Cam Gear	VDG1424					IM
23	Reel Stopper Solenoid	VSJ0216					IM
24	Front Loading Motor U.	VXA5597					F
25	Front Loading Unit	VXA7920					R
26	Fan motor	L6FAHBBD0001					R

Exchange of the mechanical chassis unit is recommended for the 12,000 h maintenance.

C : Perform cleaning.
R : Assembly subject to exchange.
G : At the time of exchange, wipe off the old grease and apply new grease.
(Morlytone grease)
IM : Included in the mechanical chassis unit.
When the mechanical chassis unit is not exchanged, exchange as a single part is required.
F : Included in the front-loading unit.

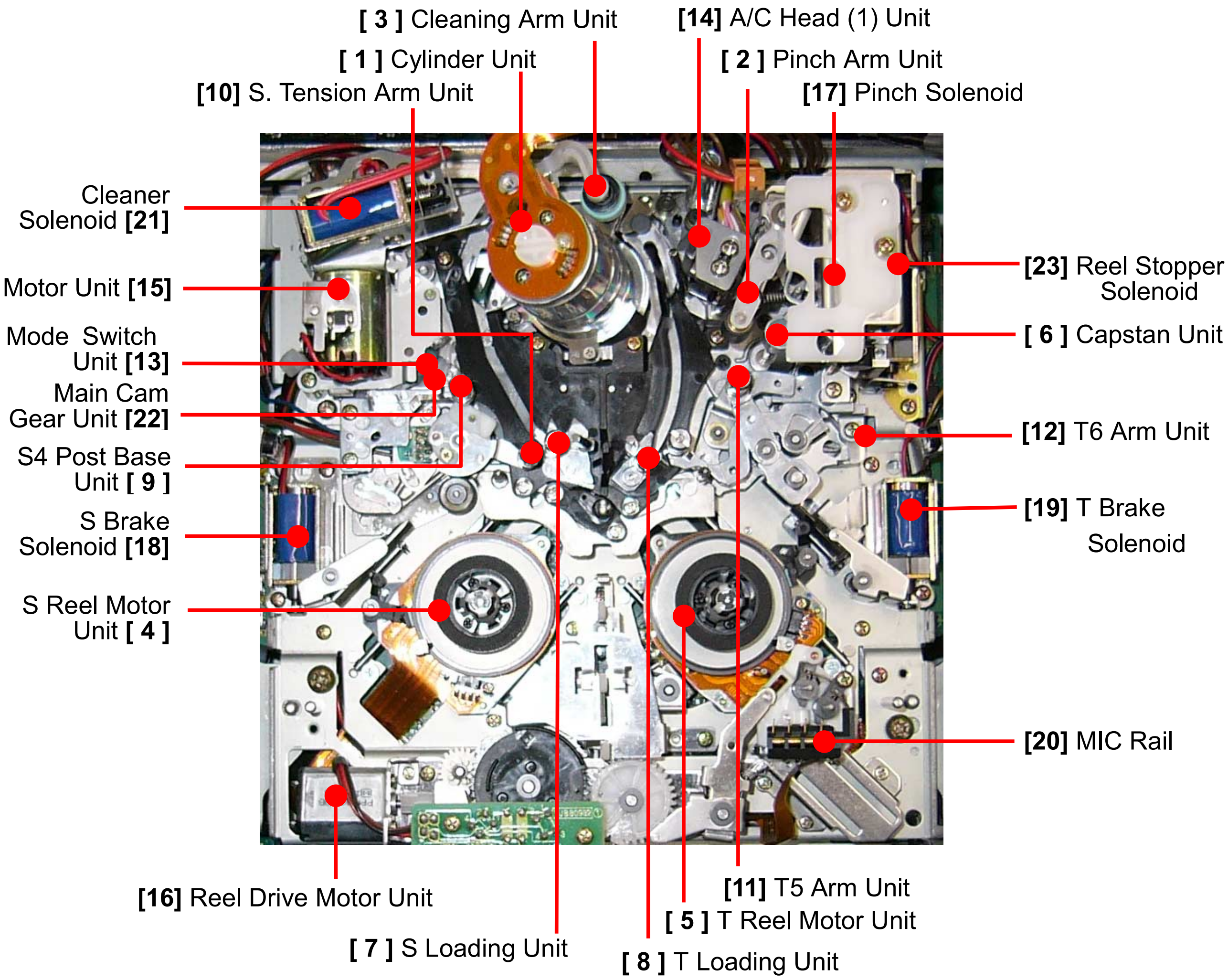
<Note:>

The Hours of use is indicated by the cylinder rotation time (DRUM RUN).

The maintenance execution time shown in the chart is recommendation for standard maintenance execution. This is not the Life of the various parts. The Life is influenced by temperature, humidity, dust, etc.

Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

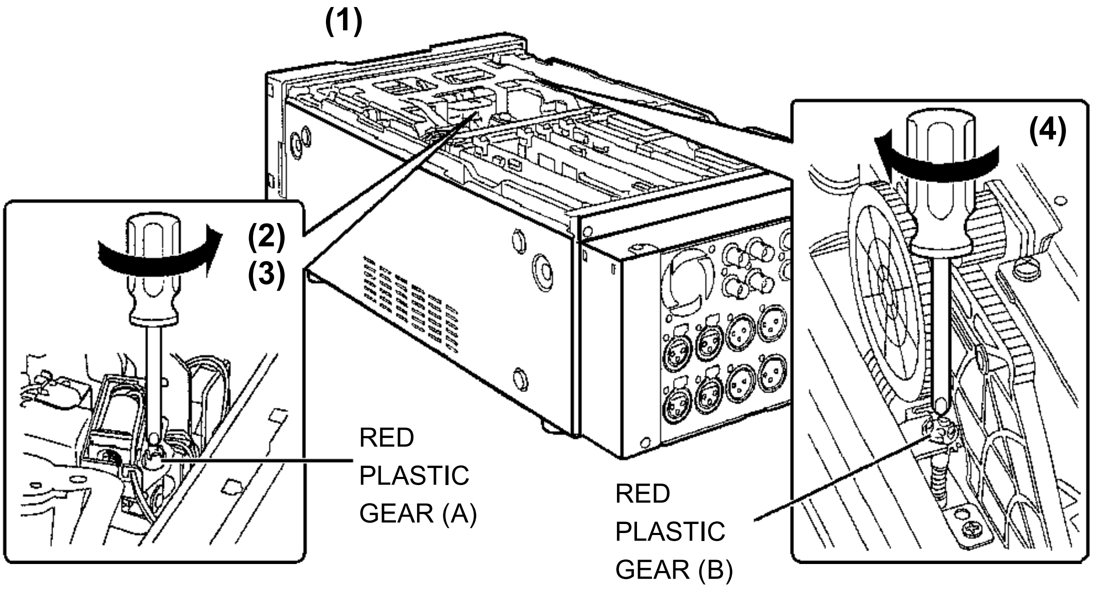
4-2. Layout of the Maintenance Parts


[3] Cleaning Arm Unit
[14] A/C Head (1) Unit
[1] Cylinder Unit
[2] Pinch Arm Unit
[10] S. Tension Arm Unit
[17] Pinch Solenoid
Cleaner Solenoid [21]
[23] Reel Stopper Solenoid
Motor Unit [15]
[6] Capstan Unit
Mode Switch Unit [13]
Main Cam Gear Unit [22]
[12] T6 Arm Unit
S4 Post Base Unit [9]
[19] T Brake Solenoid
S Brake Solenoid [18]
S Reel Motor Unit [4]
[20] MIC Rail
[11] T5 Arm Unit
[16] Reel Drive Motor Unit
[5] T Reel Motor Unit
[7] S Loading Unit
[8] T Loading Unit

5. MANUAL TAPE EJECT (EMERGENCY EJECT)

When the tape can not be ejected by normal operation because of a problem in the electrical system or the mechanical system, the tape can be removed from the unit manually by means of the following method.

1. Switch off the power and remove the upper cover.
2. Use a Philips head screw driver to push in the red plastic **gear (A)** and turn it in **counter clockwise** direction. At this time, the tape winding mechanism operates at the same time, so that the latch sound will be heard, but turning for about 10 turns should be done in this condition. (Excessive turning can place a load onto the tape and can cause tape damage.)
3. Confirm unloading for each post and that the tape has been stored completely in the cassette.
4. When the tape has returned completely into the cassette, push the plastic **gear (B)** at the front of the cassette down motor work gear, and turn it in clockwise direction to remove the cassette. (Take care that the tape is not caught when the cassette lid closes.)

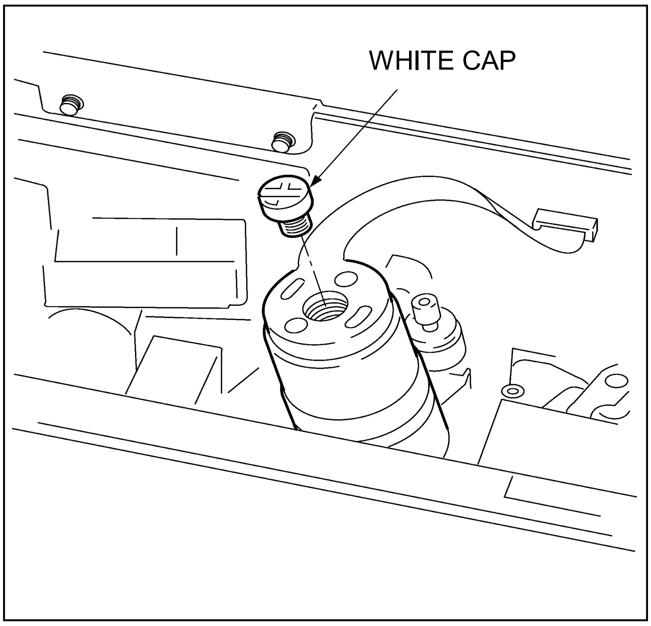


6. CYLINDER HEAD CLEANING METHOD

The cylinder head of this unit has a 3-piece construction (top, center, and bottom), and only the center cylinder with the installed head chip rotates. Accordingly, head cleaning must be performed while rotating only the center cylinder according to the following method.

NOTE: At the time of cleaning, use sufficient care not to touch the head or the cleaning roller with bare hands

1. Switch off the power and remove the upper cover.
2. Use a flat screwdriver to remove the white cap from the upper part of the cylinder, taking care not to drop it. (Refer to the following figure.)



3. Push a cleaning cloth lightly against the center cylinder (the part where the head chip is installed), insert a flat screwdriver into the hole at the center of the cylinder, and turn the center cylinder (the part where the head chip is installed) in CCW direction to perform cleaning.

NOTE: Before inserting the screwdriver into the cylinder, confirm that the center cylinder is stopped.
Take care that the screwdriver exerts no excessive force onto the cylinder unit when it is inserted.

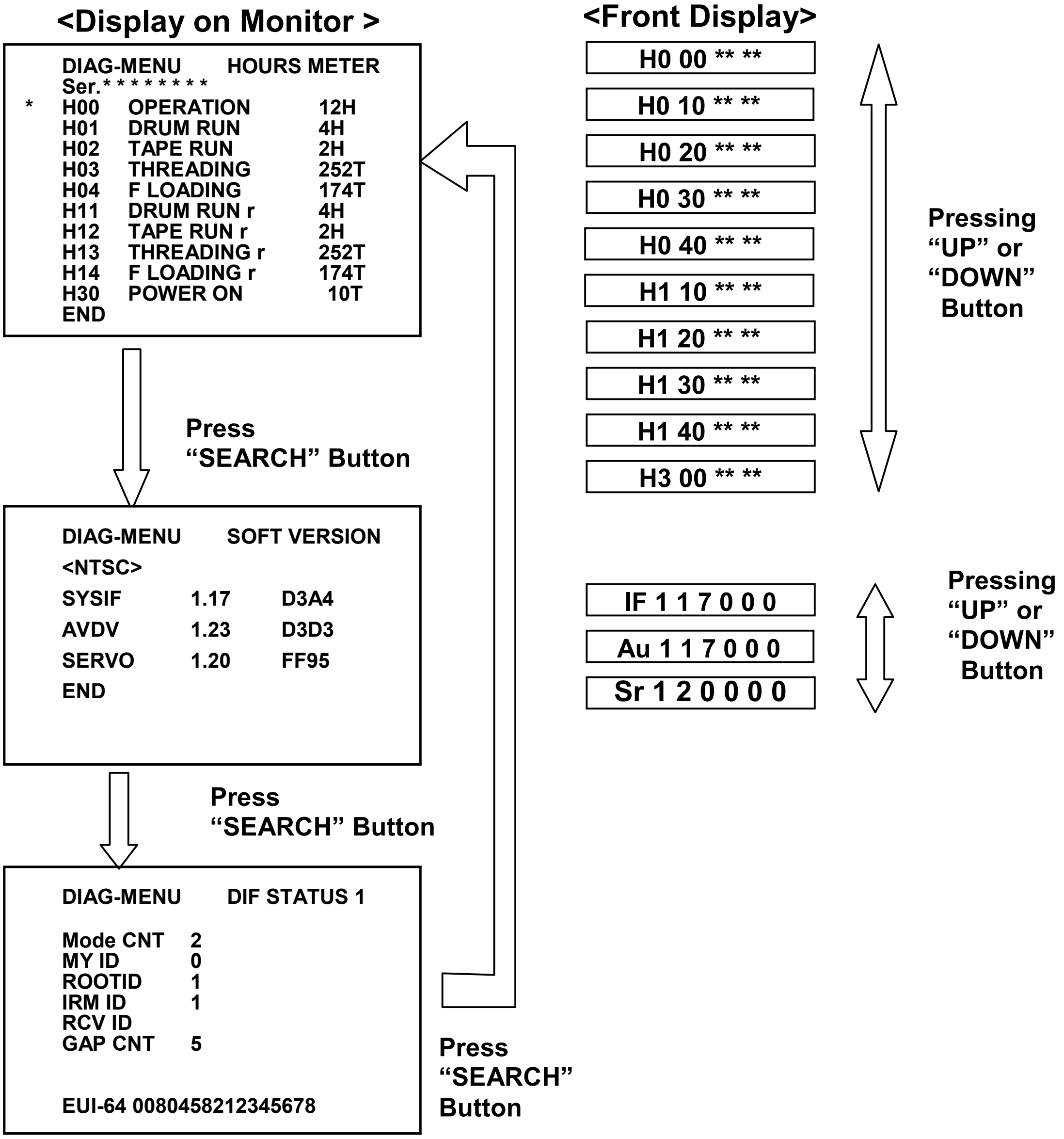
7. DIAG-MENU DISPLAY

The DIAG-MENU is the menu for investigating the status of the VTR, and it has the indicated information.

- Hour meter display (HOUR METER information)
- Software (Microcomputer) version display (SOFT VERSION information)
- DIF status and UID display (This information only displayed, when IEEE1394 IF Board (AJ-YAD120AG) has been installed.
- PLD version display (PLD VERSION information)

7-1. DIAG-MENU Operation Method

1. Press the **“EJECT”** button on the Front Panel and simultaneously set the **“LOCAL/MENU/REMOTE”** switch on the Front Panel to the **“MENU”** position so that the **“HOURS METER”** displays on the monitor and Front Display.
2. Press the **“SEARCH”** button so that the **“SOFT VERSION”** displays on the monitor TV and Front Panel.
3. Press the **“SEARCH”** button so that the **“DIF STATUS”** and **“UID Number”** are displayed on the monitor and Front Display.
4. Press the **“SEARCH”** button again then the display changes to the **“HOURS METER”** display.
5. The Diag Menu is closed by setting the **“LOCAL/MENU/REMOTE”** switch to the **“LOCAL”** or **“REMOTE”**.



```
    DIAG-MENU      HOURS METER
    Ser.* * * * * * * *
*   H00   OPERATION         12H
    H01   DRUM RUN          4H
    H02   TAPE RUN          2H
    H03   THREADING         252T
    H04   F LOADING         174T
    H11   DRUM RUN r        4H
    H12   TAPE RUN r        2H
    H13   THREADING r       252T
    H14   F LOADING r       174T
    H30   POWER ON           10T
    END
```

```
    DIAG-MENU      SOFT VERSION
    <NTSC>
    SYSIF        1.17      D3A4
    AVDV         1.23      D3D3
    SERVO        1.20      FF95
    END
```

```
    DIAG-MENU      DIF STATUS 1

    Mode CNT   2
    MY ID      0
    ROOTID     1
    IRM ID     1
    RCV ID
    GAP CNT    5


    EUI-64 0080458212345678
```

```
H0 00 ** **
H0 10 ** **
H0 20 ** **
H0 30 ** **
H0 40 ** **
H1 10 ** **
H1 20 ** **
H1 30 ** **
H1 40 ** **
H3 00 ** **
```

```
IF 1 1 7 0 0 0
Au 1 1 7 0 0 0
Sr 1 2 0 0 0 0
```

7-2. PLD Version Display

1. Turn on the VTR power.
2. Press the **“EJECT”** and **“STOP”** buttons, and simultaneously set the **“LOCAL/MENU/REMOTE”** to the **“MENU”** position.
3. Press the **“SEARCH”** Button in order to change to the **“PLD VERSION”** display.
4. When the **“LOCAL/MENU/REMOTE”** switch is set to the **“LOCAL2** or **“REMOTE”**, the VTR returns to the normal screen and display.

<Display on Monitor>

```
     DIAG-MENU      HOURS METER
     Ser.* * * * * * * *
*    H00   OPERATION        12H
     H01   DRUM RUN         4H
     H02   TAPE RUN         2H
     H03   THREADING        252T
     H04   F LOADING        174T
     H11   DRUM RUN r       4H
     H12   TAPE RUN r       2H
     H13   THREADING r      252T
     H14   F LOADING r      174T
     H30   POWER ON          10T
     END
```

“SEARCH” Button

```
     DIAG-MENU      PLD VERSION

     F2   APROC     VSI4283A -*-*
     F3   REC PB    VSI4285B -*-*
     F3   D I/F     VSI4288C -*-*
     F4   VOUT      VSI4286C -*-*
     F4   UDC       VSI4241B -*-*
     F5   SDI       VSI4287B -*-*
          SERVO     VSI4289A -*-*
```

<Front Display>

```
4283A * *
4285B * *
4288C * *
4286C * *
4241B * *
4287B * *
4289A * *
```

“UP”/ “DOWN” Button

7-3. Hours Meter Reset Procedure

1. Press the **“EJECT”** button on the Front Panel and simultaneously set the **“LOCAL/MENU/REMOTE”** switch on the Front Panel to the **“MENU”** position so that the **“HOURS METER”** displays on the monitor TV and Front Display.
2. The hours meter displays as shown below and then move the cursor **(*)** to the item with **“r”** to be reset.
3. Press the **“Reset”** button on the Front Panel so that the display changes as shown below.

```
     DIAG-MENU      HOURS METER
     Ser.     * * * * * * *
     H00   OPERATION        12H
     H01   DRUM RUN         4H
     H02   TAPE RUN         2H
     H03   THREADING        252T
     H04   F LOADING        174T
     H11   DRUM RUN r       4H
*    H12   TAPE RUN r       2H
     H13   THREADING r      252T
     H14   F LOADING r      174T
     H30   POWER ON          10T
     END
```

“RESET” Button

```
     HOURS METER INIT SET

         * * * * * * r OK?

     YES <PLAY>/NO<STOP>
```

4. When confirming the message **“* * * * * *r OK?”**, press the **“PLAY”** button on the Front Panel, the data (***H) for the item where the cursor is located will be reset.
5. When the **“LOCAL/MENU/REMOTE”** switch is set to the position except the **“MENU”**, the VTR returns to the normal screen and display.

8. Error Rate Display and Confirmation Method

8-1. On Track Error Rate Display Procedure

1. Turn off the VTR power and turn on Pin 2 of Dip switch (SW1) on the VOUT_SYS Board (F4).
2. Turn on the VTR power and set the "LOCAL/MENU/REMOTE" switch on the front panel to the "LOCAL" so that the VTR is in the Service Menu mode.
3. Connect a monitor to the Line Output so that the Service Menu can be confirmed.
4. Set "REC INHIBIT" on the front panel to "OFF".
5. Move the cursor (*) to the "RF ADJUST" by using the "UP" and "Down" Buttons, and then press the "MODE" button.
6. Move the cursor (*) to the "HDLP PB ADJUST" by using the "UP" and "Down" Buttons, and then press the "MODE" button.
7. Move the cursor (*) to the "ECC DISPLAY" by using the "UP" and "Down" Buttons, and then select "HEAD" and press the "MODE" button.
8. Move the cursor (*) to the "PB MODE" by using the "UP" and "Down" Buttons, and then select the HEAD to be displayed the error rate.
9. Each time when the "COUNTER" button on the front panel is pressed, the display mode will be changed. (Mode 1→Mode 2→Mode 3→ ---------- Mode 6→Mode 1)
10. The error rate display is cancelled when the" LOCAL/MENU/REMOTE" switch on the front panel is selected to the "LOCAL or REMOTE".

Display Mode		Segment Indication	Audio Indication			Indication Example		Indication Error Rate
			CH1	CH2	dB Indication			
Mode 1	VIDEO L	Video L	OFF	OFF	LIT		▮▮▮▮▮▮▮▮▮▮	VIDEO L HSW-H Inner
							▮▮▮▮▮	VIDEO L HSW-L Inner
Mode 2	VIDEO R	Video r	LIT	LIT	LIT	CH1	▮▮▮▮▮▮▮▮▮▮	VIDEO L HSW-H Inner
						CH2	▮▮▮▮▮	VIDEO L HSW-L Inner
Mode 3	AUDIO1 L	Audio1 L	LIT	OFF	LIT	CH1	▮▮▮▮▮▮▮▮▮▮	AUDIO L HSW-H Inner
							▮▮▮▮▮	AUDIO L HSW-L Inner
Mode 4	AUDIO1 R	Audio1 r	OFF	LIT	LIT		▮▮▮▮▮▮▮▮▮▮	AUDIO L HSW-H Inner
						CH2	▮▮▮▮▮	AUDIO L HSW-L Inner
Mode 5	AUDIO2 L	Audio2 L	OFF	OFF	FLASH		▮▮▮▮▮▮▮▮▮▮	AUDIO L HSW-H Inner
							▮▮▮▮▮	AUDIO L HSW-L Inner
Mode 6	AUDIO2 R	Audio2 r	LIT	LIT	FLASH	CH1	▮▮▮▮▮▮▮▮▮▮	AUDIO L HSW-H Inner
						CH2	▮▮▮▮▮	AUDIO L HSW-L Inner

Note: Since R Channel Head does not exist at the time of the “RP_L12” selection, the display in the mode 2, Mode 4 and Mode 6 is invalid.

Table 8-1-1

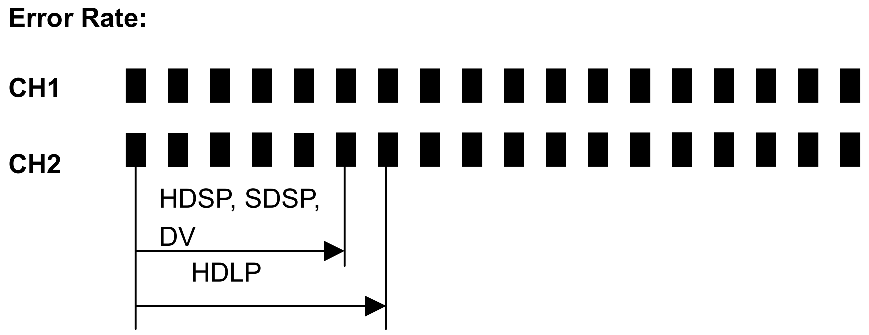
8-2. Non Track Error Rate Display Procedure (Total Error Rate/All Format)

1. Perform the steps 1 to 6 of “8-1. On Track Error Rate Display Procedure”.
2. Move the cursor **(*)** to the **“ECC DISPLAY”** by using the **“UP”** and **“Down”** Buttons, and then select **“NORMAL”** and press the **“MODE”** button.
3. The Video and Audio can be selected by pressing the **“COUNTER”** switch.
4. Each time when the **“COUNTER”** button on the front panel is pressed, the display mode will be changed from the mode 1 to 2 and 2 to 1.
5. The error rate value can be confirmed as shown figure 8-1-3.
6. The error rate display is cancelled when the” **LOCAL/MENU/REMOTE**” switch on the front panel is set to the **“LOCAL”** or **“REMOTE”**.

Display Mode		**7 Segment Indication**	**Audio Indication**			**Indication Example**		**Indication Error Rate**
			CH1	**CH2**	**dB Indication**			
Mode 1	VIDEO	Video	OFF	OFF	LIT		▮▮▮▮▮▮▮▮▮▮	VIDEO Lch Total
							▮▮▮▮▮	VIDEO Rch Total
Mode 2	AUDIO	Video r	LIT	LIT	LIT	CH1	▮▮▮▮▮▮▮▮▮▮	AUDIO Lch Total
						CH2	▮▮▮▮▮	AUDIO Rch Total

Table 8-1-2

8-3. Error Rate Display on Audio Level Meter



Mode	Segment of Audio Meter
HDLP	LED LIT : 7 Segments or Less
HDSP	LED LIT : 6 Segments or Less
SDSP	LED LIT : 6 Segments or Less
DVSP	LED LIT : 6 Segments or Less

Figure 8-1-3

9. SOFTWARE VERSION UPGRADE METHOD

This VTR uses built-in Flash ROM Microcomputers (CPU) and FPGA, CPLD IC's.
At the time of a version upgrade, use the version up tool, cables and software as shown in table 9-1.

Board	IC Type	IC Name	Name of Manufacture	Version Up Tool	Version Up Software	Version Up Procedure
REC/PB	CPU (FLASH)	AV/DV	Mitsubishi	VFK1304A	VFK1248M or higher	9-1-2
	FPGA (PLD)	REC/PB	ALTERA	VFK1304A	VFK1248M or higher	9-1-3
	PLD	REC/PB	LATTICE	VFK1590	*ispVM	9-2-3
V_OUT/SYS	CPU (FLASH)	SYS/IF	MITUBISHI	VFK1304A	VFK1248M or higher	9-1-2
	FPGA (PLD)	VOUT	XILNX	VFK1304A	VFK1248M or higher	9-1-3
SERVO	CPU (FLASH)	SERVO	Panasonic	VFK1304A	VFK1248M or higher	9-1-2
	PLD	SERVO	XILINX	VFK1590	*iMPACK	9-2-4
APROC	FPGA (PLD)	APROC	ALTERA	VFK1590	*Max Plus II	9-2-2
1394 IF (AJ-YAD120AG)	CPU (FLASH)	DIF	Mitsubishi	VFK1304A	VFK1248M or higher	9-1-2
	FPGA (PLD)	1394 IF	XILINX	VFK1590	VFK1879	9-2-5
SGEN/SDI (AJ-YA120AG)	FPGA (PLD)	SDI	ALTERA	VFK1590	*Max Plus II	9-2-2
UDC(IP_CONV) (AJ-YA120AG)	FPGA (PLD)	UDC	ALTERA	VFK1590	*Max Plus II	9-2-2

<Note> 1. The Version Up Software name with (*) should be downloaded from the manufacture's Web site.

Table 9-1

9-1. Flash ROM (Microcomputer) and PLD Version Upgrade by Flash Memory Version Up Tool (VFK1304A)

<Note>

This software will not function using Windows XP, 2000, or ME. You must use either Windows 95® or Windows 98® software to operate this Flash Memory Version Upgrade.

9-1-1. Preparations for the Version Upgrade

1. Items required for flash memory writing

Version Upgrade Software ....**VFK1248M or higher**

VFK1248M consist of 4 type of software as shown below.

· VSI2312M.exe
· f_servo.obf
· FW103u.exe
· Setting.ini

Personal Computer : WINDOWS95/98
RS-232C Cable (D-sub 25pin-25 pin cross cable or D-sub 9 pin-25 pin cross cable)
Flash Memory Version Up Tool...**VFK1304A**

2. Switch setting of the flash memory version upgrade jig

Confirm that the switch settings for the "flash memory version up tool (VFK1304A)" are as shown below.

SW1-1: ON **SW1-3: OFF**
SW1-2: ON **SW1-4: OFF**

3. Connection

1. Connect the Flash Memory Version Up Tool (VFK1304A) with Personal Computer (MS-DOS, Windows 95® or 98®) by RS-232C cross cable as shown in figure 9-1A-1.
2. Connect the flexible cable from the Flash Memory Version Up Tool to the connector on the board to be version upgraded as shown in figures 9-1A-1 and 9-1A-3.
3. Turn on the VTR power and Personal Computer power.
4. Copy the Program Data software as shown table 9-1A-2 into the personal computer.

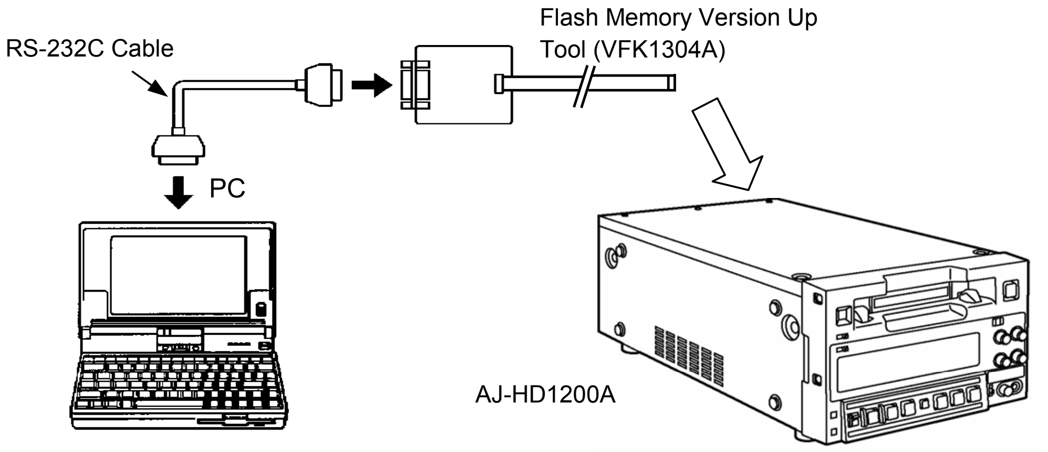

Flash Memory Version Up
Tool (VFK1304A)
RS-232C Cable
PC
AJ-HD1200A

Figure 9-1A-1

No	Board [Slot No.]	IC Name (Type)	Ref. No.	Connector	Part No. For Program Software [Version/Check Sum]
1	REC_PB [F3]	AV_DV Microcomputer (Flash)	IC652	P651	VVVSI4335A [Ver. 1.36 / CAOE]
		REC_PB (A), (PLD)	IC53, IC300		VVVSI4284D
2	VOUT/SYS [F4]	SYS_IF Microcomputer (Flash)	IC500	P501	VVVSI4336A [Ver. 1.27 / 8840]
		VOUT (PLD)	IC600		VVVSI4286D
3	SERVO [Under Mech] (RF_EQ:[F1])	SERVO Microcomputer (Flash)	IC302	P300 on SERVO Board or P3 on RF_EQ	VVVSI4281A [Ver. 1.21 / E970]
4	1394 IF [F3] (AJ-YAD120AG)	1394 IF Microcomputer (Flash)	IC50	P2	VVVSI4282D [Ver. 1.32 / 0677]

* The part number for latest program software can be confirmed by the Web site.

Table 9-1A-2

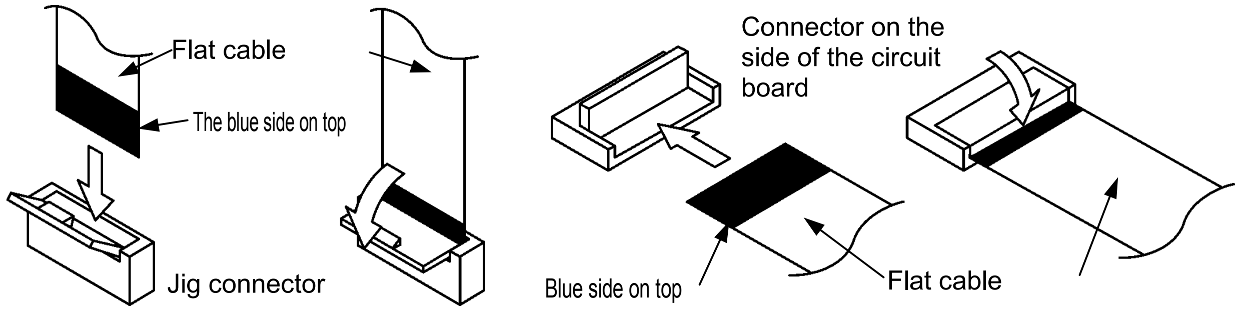

Flat cable
The blue side on top
Jig connector
Connector on the side of the circuit board
Blue side on top
Flat cable

Figure 9-1A-3

<BOARD LOCATION>

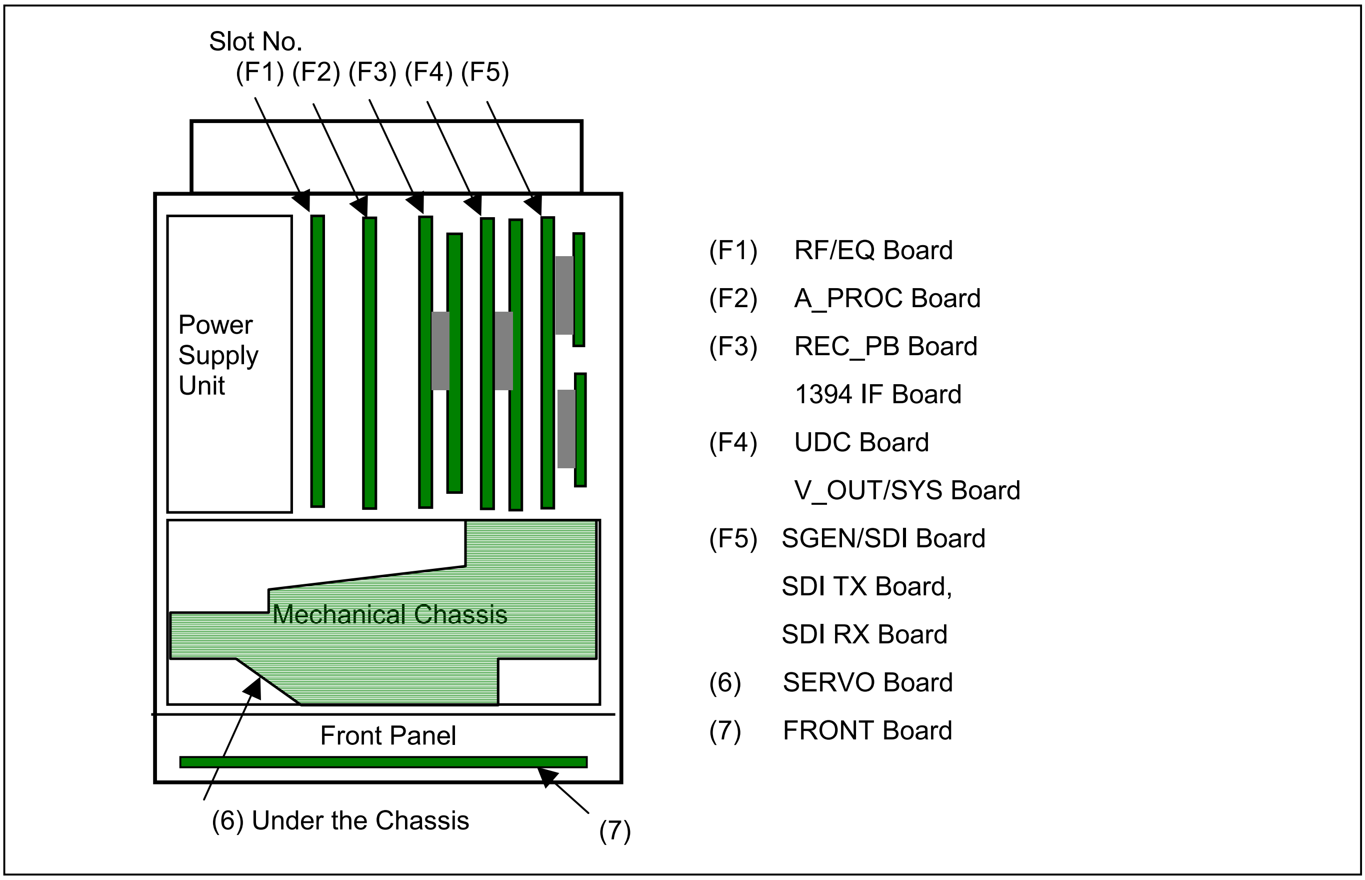
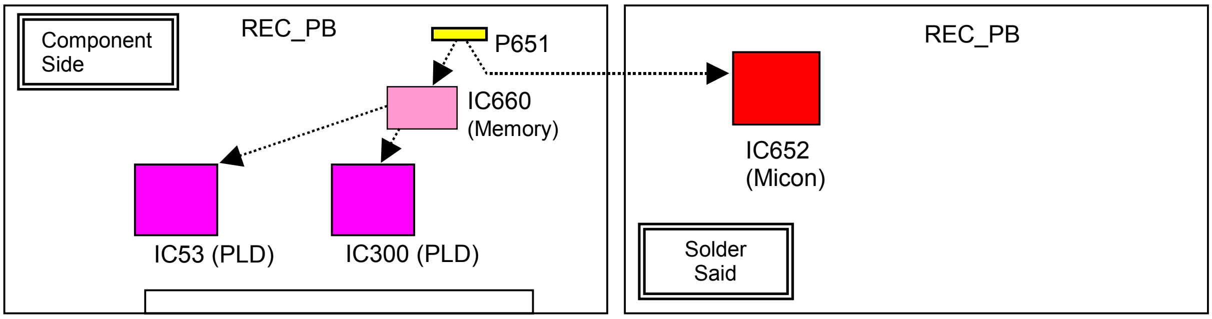

Slot No.
(F1) (F2) (F3) (F4) (F5)
Power Supply Unit
Mechanical Chassis
Front Panel
(6) Under the Chassis
(7)
(F1) RF/EQ Board
(F2) A_PROC Board
(F3) REC_PB Board
1394 IF Board
(F4) UDC Board
V_OUT/SYS Board
(F5) SGEN/SDI Board
SDI TX Board,
SDI RX Board
(6) SERVO Board
(7) FRONT Board

Figure 9-1A-4

(F3-1) REC_PB BOARD


Component Side
REC_PB
P651
IC660
(Memory)
IC53 (PLD)
IC300 (PLD)
REC_PB
IC652
(Micon)
Solder Said

1. 🟨 : Communication Connector.
2. 🟥 : Built-in Flash ROM Microcomputer.
3. ▨ : Data Memory IC.
   (Memory data is transmitted to the IC's (🟪), when turn on the VTR power.)
4. 🟪 : FPGA IC.
5. After replacing the IC (🟥) or (▨), the program software should be written.
6. After replacing the microcomputer (🟪), the program writing is not necessary.

Figure 9-1A-5

(F3-2) 1394 IF BOARD

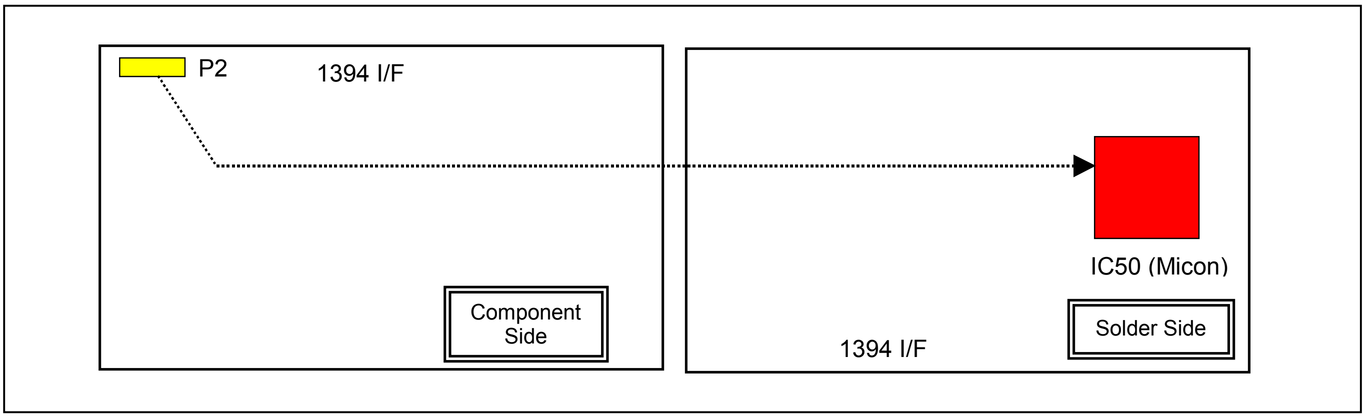
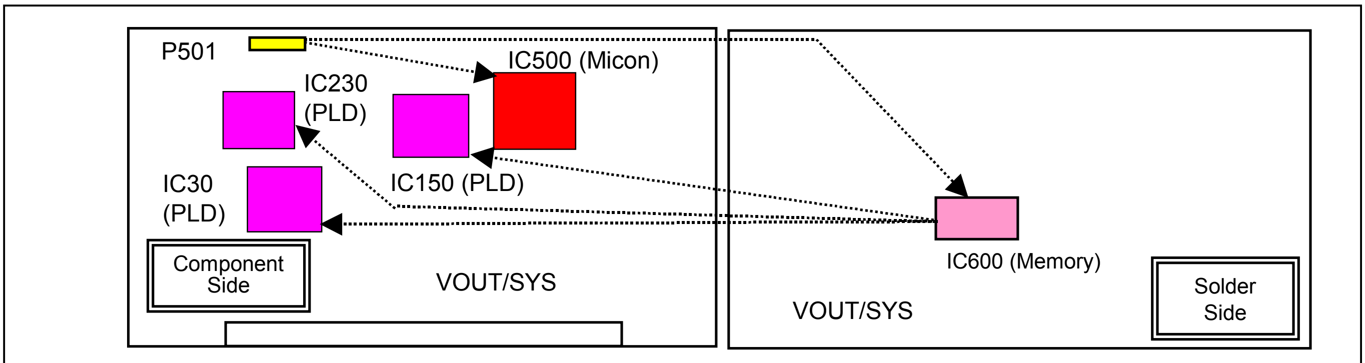

P2
1394 I/F
Component Side
IC50 (Micon)
Solder Side
1394 I/F

Figure 9-1A-6

(F4) VOUT/SYS BOARD


P501
IC500 (Micon)
IC230 (PLD)
IC150 (PLD)
IC30 (PLD)
Component Side
VOUT/SYS
IC600 (Memory)
VOUT/SYS
Solder Side

1. 🟨 : Communication Connector.
2. 🟥 : Built-in Flash ROM Microcomputer.
3. ▨ : Data Memory IC.
   (Memory data is transmitted to IC's (🟪), when turn on the VTR power.)
4. 🟪 : PLD or FPGA IC.
5. After replacing the IC (🟥) or (▨), the program software should be written.
6. After replacing the microcomputer (🟪), the program writing is not necessary.

Figure 9-1A-7

(6) SERVO BOARD

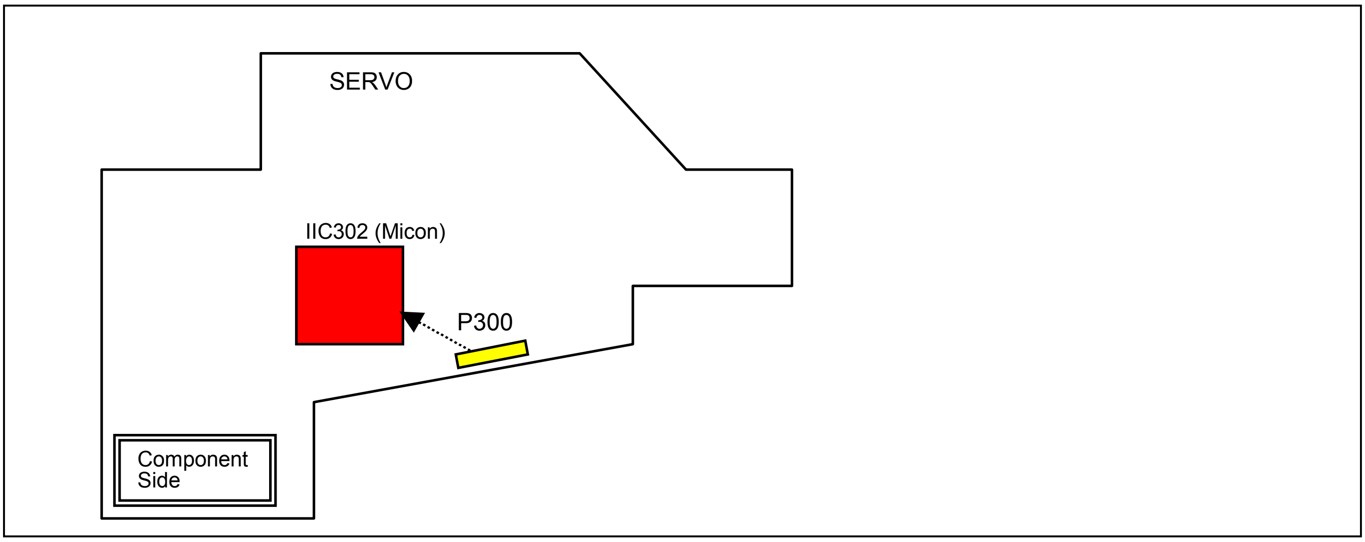
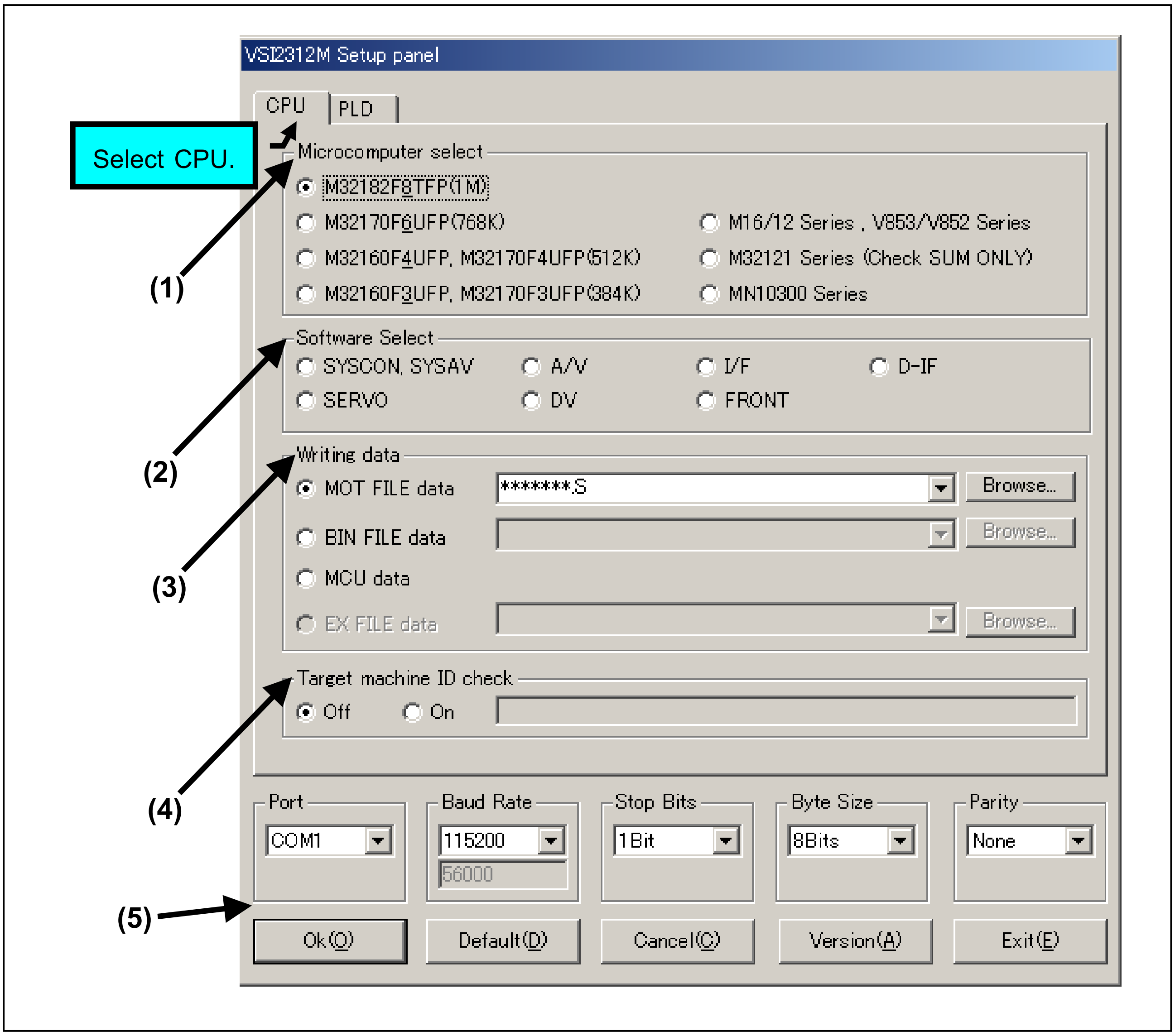

SERVO
IIC302 (Micon)
P300
Component Side

Figure 9-1A-8

9-1-2. Microcomputer Flash ROM Version Upgrade Procedure (1)
<AV_DV, SYS_IF and 1394 IF Microcomputer>

1. Copy the program software for the AV_DV, SYS_IF and 1394 IF as shown in the table 9-1A-2 into the personal computer.
2. Turn on the VTR power.
3. Execute the VSI2312M. exe so that the following screen appears.
4. Select the CPU (Microcomputer) sheet as shown in figure 9-1B-1.



Select CPU.

VSI2312M Setup panel

Microcomputer select
● M32182F8TFP(1M)
○ M32170F6UFP(768K)
○ M32160F4UFP, M32170F4UFP(512K)
○ M32160F3UFP, M32170F3UFP(384K)
○ M16/12 Series , V853/V852 Series
○ M32121 Series (Check SUM ONLY)
○ MN10300 Series

Software Select
○ SYSCON, SYSAV
○ SERVO
○ A/V
○ DV
○ I/F
○ FRONT
○ D-IF

Writing data
● MOT FILE data: *******.S
○ BIN FILE data
○ MCU data
○ EX FILE data

Target machine ID check
● Off
○ On

Port: COM1
Baud Rate: 115200 (56000)
Stop Bits: 1Bit
Byte Size: 8Bits
Parity: None

Figure 9-1B-1

5. Select the each item on the Setup Panel as shown in the table 9-1-10.

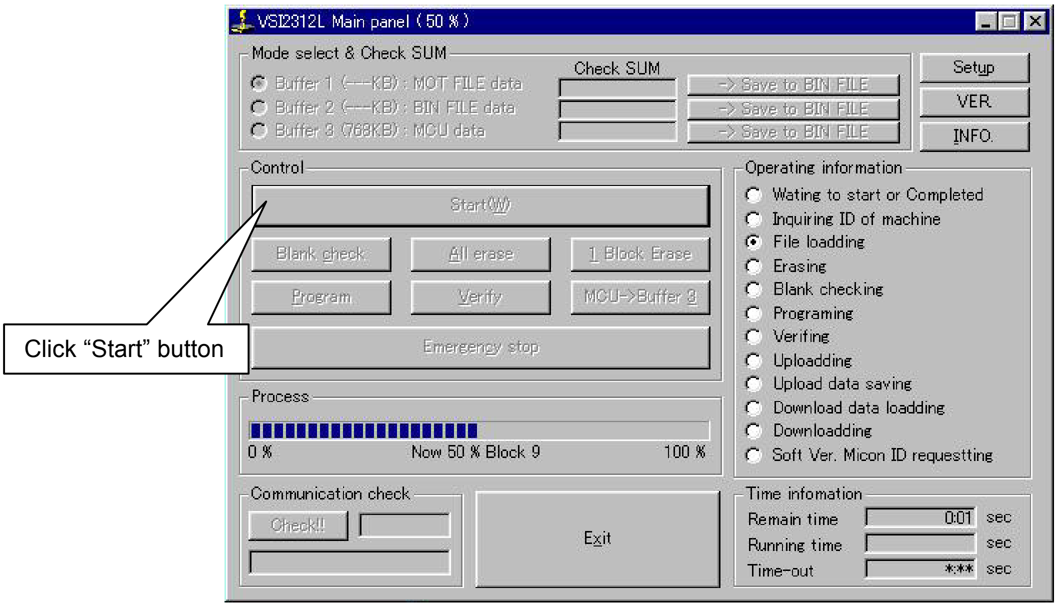
Board Name (Slot No.)	**(1) Microcomputer Select**	**(2) Software Select**	**(3) Writing data**		**(4) Target machine ID check**
			FILE data	FILE Extension	
REC_PB Board AV_DV (F3)	M32182F8TFP(1M)	Don’t select any one.	MOT	.mot or s	off
VOUT/SYS Board SYS_IF (F4)	M32182F8TFP(1M)		MOT	.mot or s	off
1394 IF Board DIF (F3)	M32170F4UFP(512K)		MOT	.mot	off

(5) Setting for PC	Port	COM1	Baud Rate	115200
	Stop Bits	1Bit	Byte size	8Bits
	Parity			

* The numbers (1) – (5) in the above tables show the number in figure 9-1B-1 (Setup Panel).

Table 9-1B-2

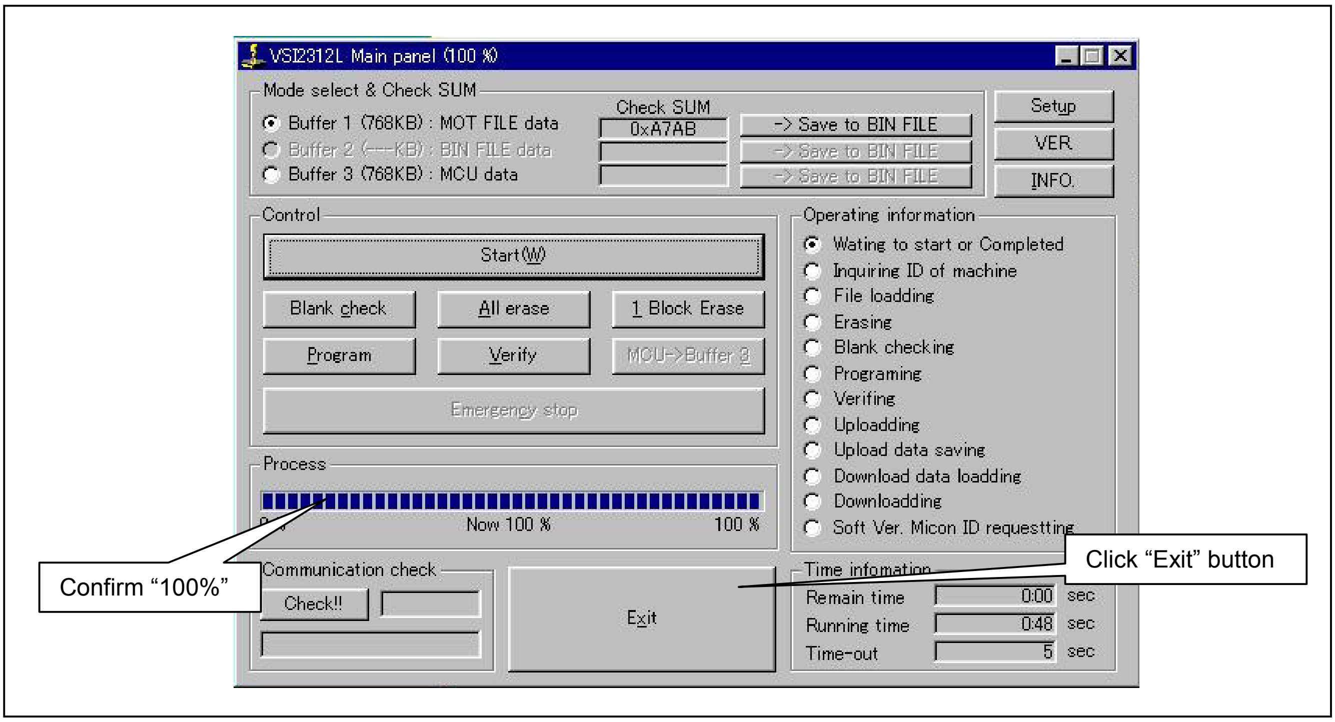
6. Press **“OK”** button so that the following screen appears and check sum is calculated.
7. Press **“Start”** button so that the software programming will start.


VSI2312L Main panel (50 %)
Mode select & Check SUM
○ Buffer 1 (---KB) : MOT FILE data
○ Buffer 2 (---KB) : BIN FILE data
○ Buffer 3 (768KB) : MCU data
Check SUM
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER.
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Operating information
○ Wating to start or Completed
○ Inquiring ID of machine
● File loadding
○ Erasing
○ Blank checking
○ Programing
○ Verifing
○ Uploadding
○ Upload data saving
○ Download data loadding
○ Downloadding
○ Soft Ver. Micon ID requestting
Process
0 %
Now 50 % Block 9
100 %
Communication check
Check!!
Exit
Time infomation
Remain time
0:01
sec
Running time
sec
Time-out
***
sec

Click “Start” button

Figure 9-1B-3

8. Confirm the bar in the Process window reach to 100% that means the software programming complete as shown in figure 9-1B-4.


VSI2312L Main panel (100 %)
Mode select & Check SUM
Check SUM
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Process
Operating information
○ Inquiring ID of machine
○ File loadding
○ Erasing
○ Blank checking
○ Programing
○ Verifing
○ Uploadding
○ Upload data saving
○ Download data loadding
○ Downloadding
○ Soft Ver. Micon ID requestting
Communication check
Check!!
Exit
Time infomation

● Buffer 1 (768KB) : MOT FILE data — Check SUM 0xA7AB
○ Buffer 2 (---KB) : BIN FILE data
○ Buffer 3 (768KB) : MCU data

● Wating to start or Completed

Now 100 % 100 %

Remain time 0:00 sec
Running time 0:48 sec
Time-out 5 sec

Confirm “100%”

Click “Exit” button

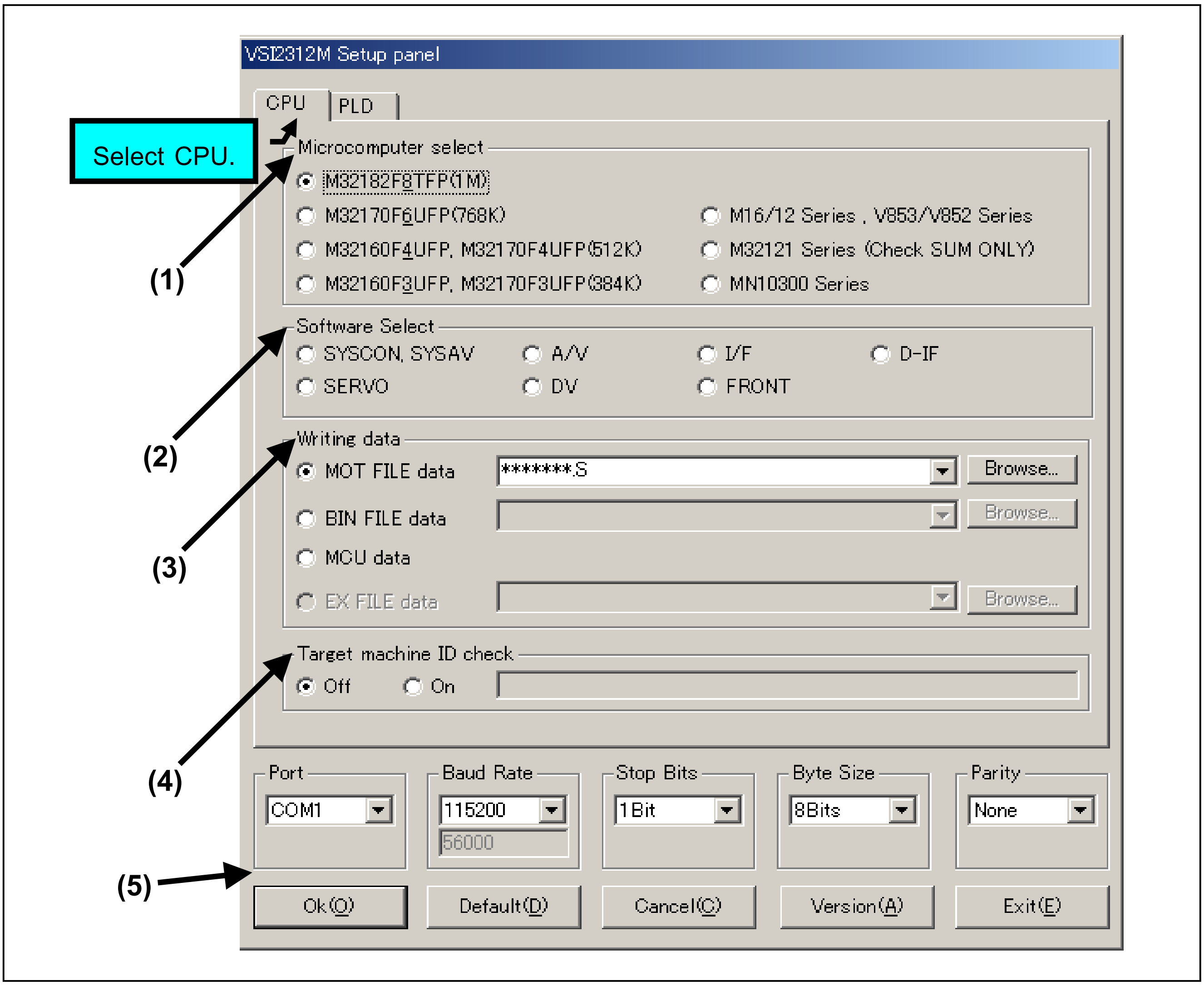
Figure 9-1B-4

9. Press **“Exit”** button to end the program.
   * If the error occurs during above process, repeat the process from step 8 again.
10. Turn the power of the VTR off and then on. This will reboot the VTR.
11. Confirm that software version is updated.

9-1-3. Microcomputer Flash ROM Version Upgrade Procedure (1)

< SERVO Microcomputer >

1. Copy the Servo program software as shown in table 9-1A-2 into the personal computer.
   For your reference, an extension of Servo program software is different from others such as AV_ DV, SYS_IF and 1394 IF.
2. Turn on the VTR power.
3. Execute the VSI2312M. exe so that the screen as shown in figure 9-1C-1 appears and then select the **"CPU"** sheet.



VSI2312M Setup panel

Microcomputer select
● M32182F8TFP(1M)
○ M32170F6UFP(768K)
○ M32160F4UFP, M32170F4UFP(512K)
○ M32160F3UFP, M32170F3UFP(384K)
○ M16/12 Series , V853/V852 Series
○ M32121 Series (Check SUM ONLY)
○ MN10300 Series

Software Select
○ SYSCON, SYSAV ○ A/V ○ I/F ○ D-IF
○ SERVO ○ DV ○ FRONT

Writing data
● MOT FILE data *******.S
○ BIN FILE data
○ MCU data
○ EX FILE data

Target machine ID check
● Off ○ On

Port: COM1
Baud Rate: 115200
56000
Stop Bits: 1Bit
Byte Size: 8Bits
Parity: None

Figure 9-1C-1

4. Select the each item on the Setup Panel as shown in the table 9-1C-2.

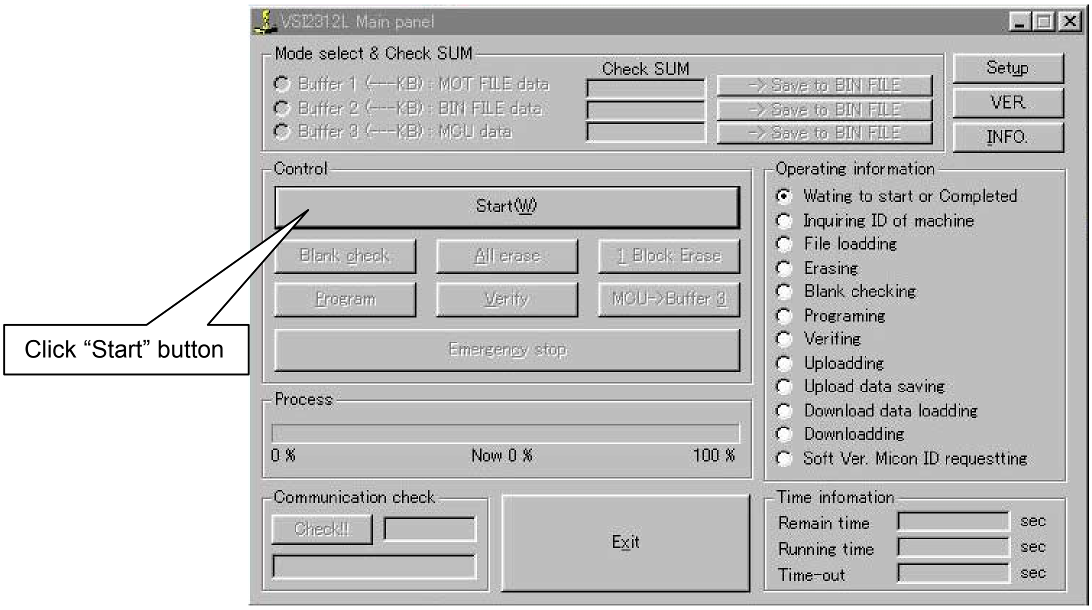
Board Name **Name of Microcomputer**	**(1) Microcomputer Select**	**(2) Software Select**	**(3) Writing data**		**(4) Target machine ID check**
			FILE data	FILE Extension	
SERVO Board SERVO (Under Mech)	MN10300 Series	Don't select any one.	EX	.ex	off

(5) Setting for PC				
	Port	COM1	Baud Rate	115200
	Stop Bits	1Bit	Byte size	8Bits
	Parity	None		

* The numbers (1) – (5) in the above tables show the number in figure 9-1C-1 (Setup Panel).

Table 9-1C-2

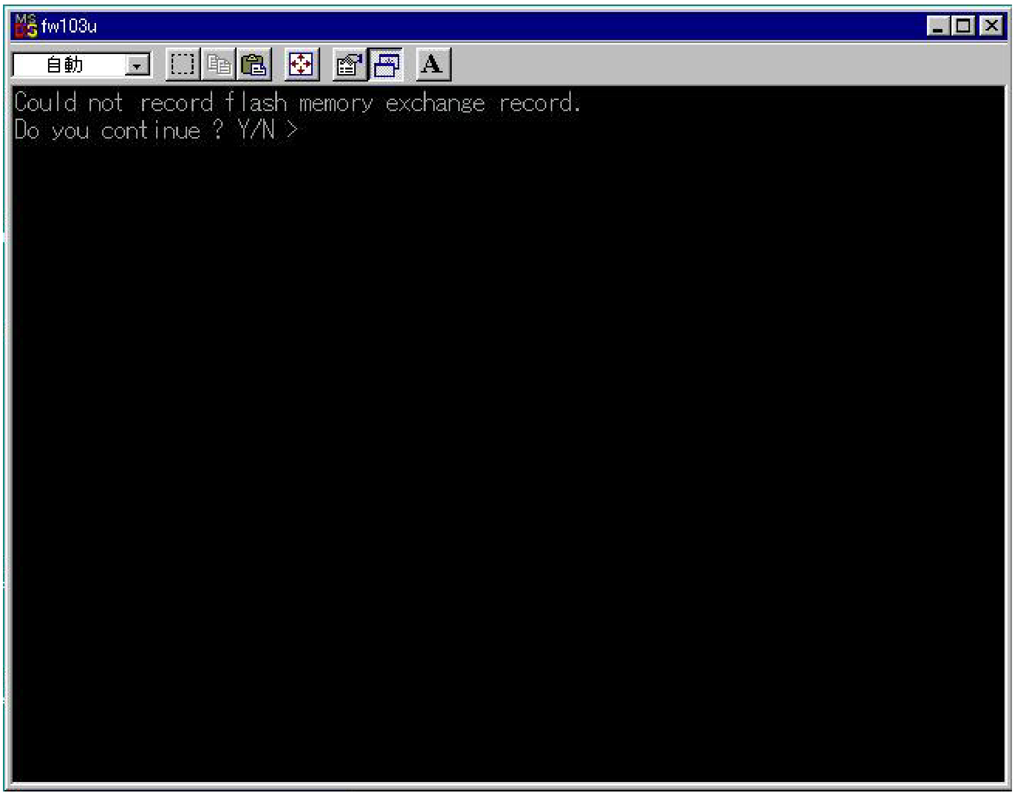
5. Press **“OK”** button so that the following screen appears and Check sum is not calculated.


Click “Start” button

VSI2812L Main panel
Mode select & Check SUM
Buffer 1 (---KB) : MOT FILE data
Buffer 2 (---KB) : BIN FILE data
Buffer 3 (---KB) : MCU data
Check SUM
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Process
0 %
Now 0 %
100 %
Communication check
Check!!
Exit
Operating information
Wating to start or Completed
Inquiring ID of machine
File loadding
Erasing
Blank checking
Programing
Verifing
Uploadding
Upload data saving
Download data loadding
Downloadding
Soft Ver. Micon ID requestting
Time infomation
Remain time
sec
Running time
sec
Time-out
sec

Figure 9-1C-3

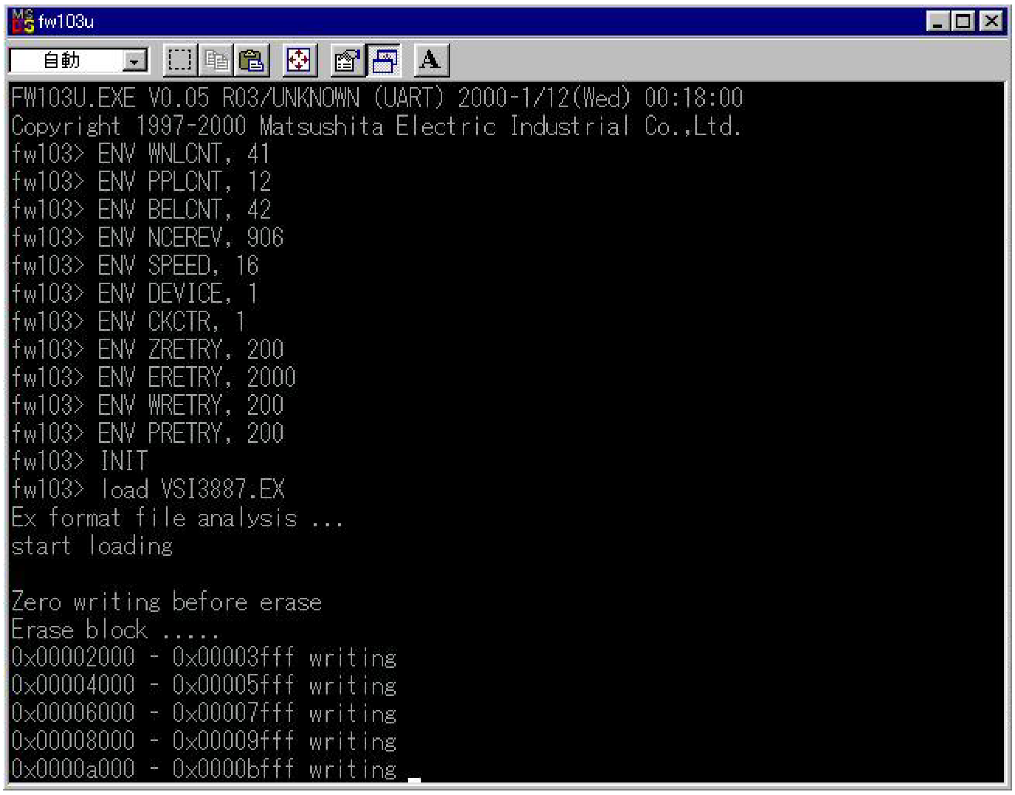
6. Click **“Start”** button as shown in figure 9-1C-3 so that the following comment appears in the MS DOS screen.
Do you continue? Y/N>



```
Could not record flash memory exchange record.
Do you continue ? Y/N >
```

Figure 9-1C-4

7. Select **“Y”** and press **“Enter”**, then the program will start.



```
FW103U.EXE V0.05 R03/UNKNOWN (UART) 2000-1/12(Wed) 00:18:00
Copyright 1997-2000 Matsushita Electric Industrial Co.,Ltd.
fw103> ENV WNLCNT, 41
fw103> ENV PPLCNT, 12
fw103> ENV BELCNT, 42
fw103> ENV NCEREV, 906
fw103> ENV SPEED, 16
fw103> ENV DEVICE, 1
fw103> ENV CKCTR, 1
fw103> ENV ZRETRY, 200
fw103> ENV ERETRY, 2000
fw103> ENV WRETRY, 200
fw103> ENV PRETRY, 200
fw103> INIT
fw103> load VSI3887.EX
Ex format file analysis ...
start loading

Zero writing before erase
Erase block .....
0x00002000 - 0x00003fff writing
0x00004000 - 0x00005fff writing
0x00006000 - 0x00007fff writing
0x00008000 - 0x00009fff writing
0x0000a000 - 0x0000bfff writing _
```

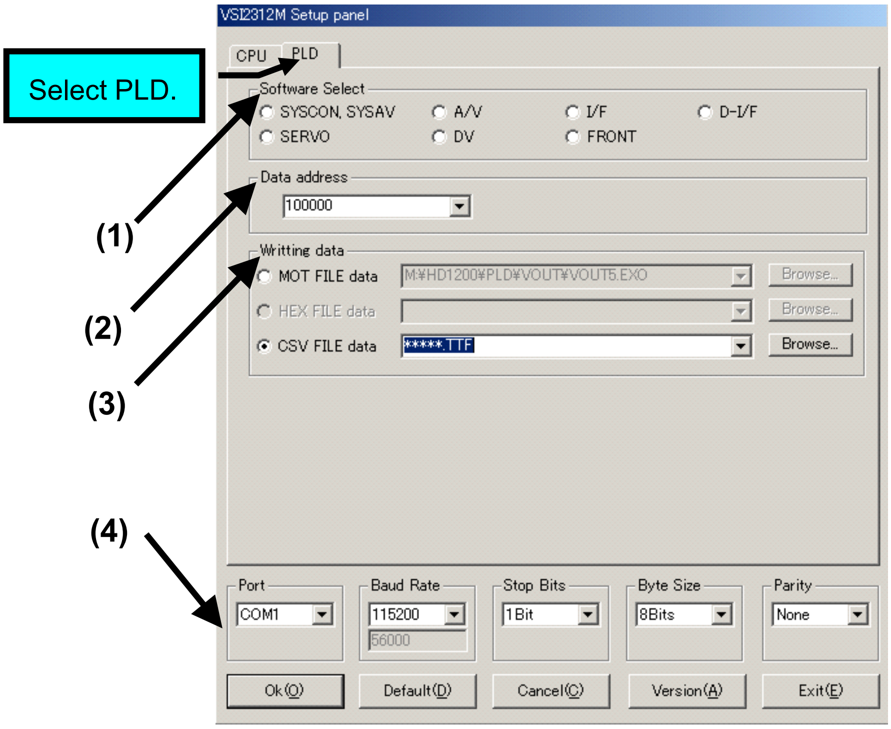
Figure 9-1C-5

8. The screen display of MS-DOS changes to Windows screen after the programming complete.
9. Press **“Exit”** button to end the program.
10. Turn the power of the VTR off and then on. This will reboot the VTR.
11. Confirm that software is updated.

9-1-4. PLD Version Upgrade Procedure

< REC_PB (A) and VOUT PLD >

1. Copy the program software for the REC_PB (A) and VOUT PLD as shown in the table 9-1A-2 into the personal computer.
2. Turn on the VTR power.
3. Execute the VSI2312M. exe so that the following screen appears.
4. Select the PLD sheet as shown in figure 9-1D-1.


Select PLD.
(1)
(2)
(3)
(4)
VSI2312M Setup panel
CPU
PLD
Software Select
SYSCON, SYSAV
A/V
I/F
D-I/F
SERVO
DV
FRONT
Data address
Writting data
MOT FILE data
HEX FILE data
CSV FILE data
Browse...
Browse...
Browse...
Port
Baud Rate
Stop Bits
Byte Size
Parity
Ok(O)
Default(D)
Cancel(C)
Version(A)
Exit(E)

Data address: 100000

MOT FILE data: M:¥HD1200¥PLD¥VOUT¥VOUT5.EXO

● CSV FILE data: *****.TTF

Port: COM1 | Baud Rate: 115200 (56000) | Stop Bits: 1Bit | Byte Size: 8Bits | Parity: None

Figure 9-1D-1

5. Select the each item on the Setup Panel as shown table 9-1-19.

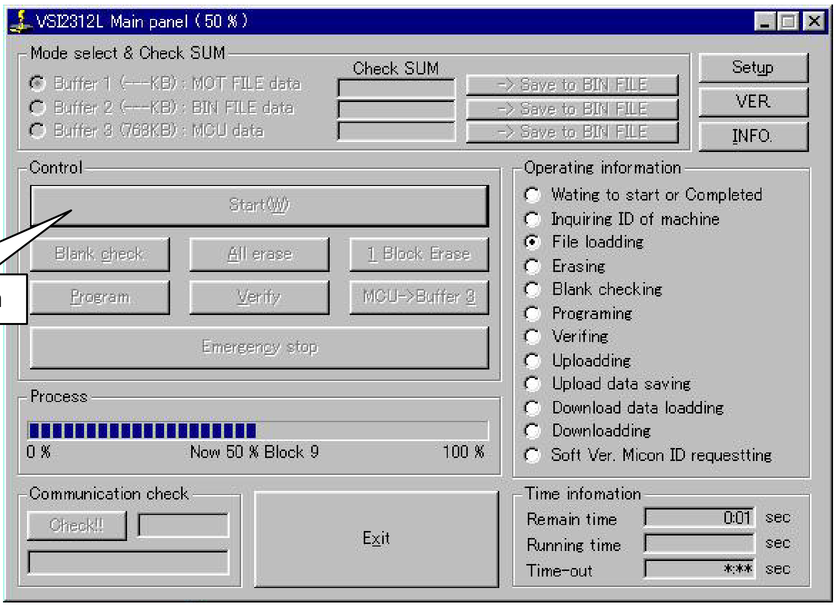
Boad Name Name of Microcomputer (Slot No.)	**(1) Microcomputer Select**	**(2) Software Select**	**(3) Writing data**	
			MOT FILE data	**CSV FILE data**
REC_PB Board AV/DV (F3)	Don't select any one.	100000	CSV	.ttf
VOUT/SYS Board SYS/IF (F4)		200000	MOT	.exo

(4) Setting for PC	Port	COM1	Baud Rate	115200
	Stop Bits	1Bit	Byte size	8Bits
	Parity	None		

* The numbers (1) – (4) in the above tables show the number in figure 9-1D-1 (Setup Panel).

Table 9-1D-2

6. Click **“OK”** button so that the following screen appears and check sum is calculated.
7. Click **“Start”** button so that the software programming will start.


VSI2312L Main panel (50 %)
Mode select & Check SUM
Check SUM
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Process
Communication check
Check!!
Exit
Operating information
Time infomation
sec
sec
sec

● Buffer 1 (---KB) : MOT FILE data
○ Buffer 2 (---KB) : BIN FILE data
○ Buffer 3 (768KB) : MCU data

○ Wating to start or Completed
○ Inquiring ID of machine
● File loadding
○ Erasing
○ Blank checking
○ Programing
○ Verifing
○ Uploadding
○ Upload data saving
○ Download data loadding
○ Downloadding
○ Soft Ver. Micon ID requestting

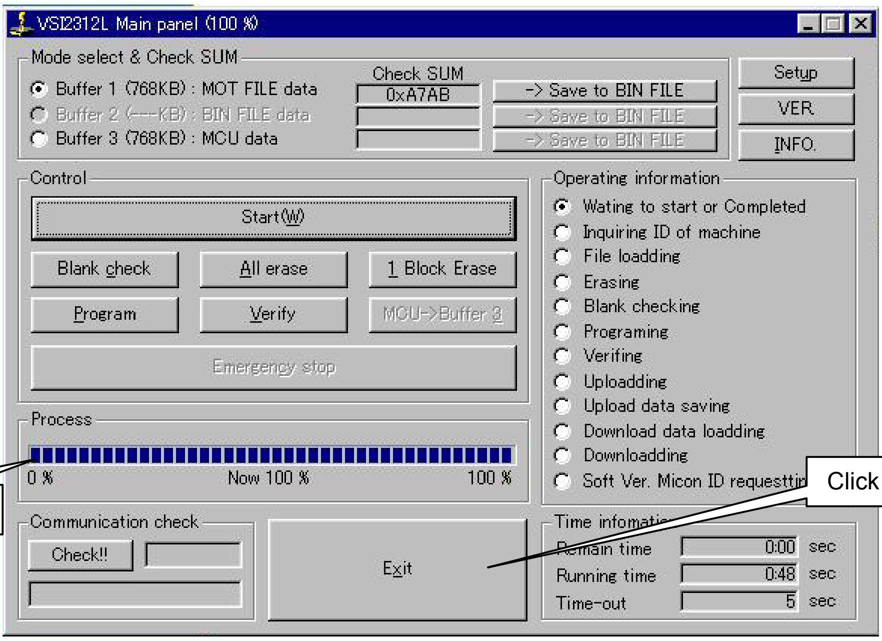
0 % Now 50 % Block 9 100 %

Remain time 0:01 sec
Running time sec
Time-out *:** sec

Click “Start” button

Figure 9-1D-3

8. Confirm the bar in the Process window reach to 100% that means the software programming complete as shown in figure 9-1D-4.


VSI2312L Main panel (100 %)
Mode select & Check SUM
Check SUM
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Process
Communication check
Check!!
Exit
Operating information
Time infomation
sec
sec
sec

● Buffer 1 (768KB) : MOT FILE data
○ Buffer 2 (---KB) : BIN FILE data
○ Buffer 3 (768KB) : MCU data

Check SUM 0xA7AB

● Wating to start or Completed
○ Inquiring ID of machine
○ File loadding
○ Erasing
○ Blank checking
○ Programing
○ Verifing
○ Uploadding
○ Upload data saving
○ Download data loadding
○ Downloadding
○ Soft Ver. Micon ID requestting

0 % Now 100 % 100 %

Remain time 0:00 sec
Running time 0:48 sec
Time-out 5 sec

Confirm “100%”

Click “Exit” button

Figure 9-1D-4

9. Click **“Exit”** button to end the program.
   * If the error occurs during above process, repeat the process from step 8 again.
10. Turn off and on the power of VTR in order to reboot the machine.
11. Confirm that the software version is updated.
12. Turn off the VTR power and remove the Flash memory version up tool and cables.

9-2. CPLD Version Upgrade by CPLD Writer (VFK1590)

9-2-1. Connection

1. Connect the D-sub cable between the CPLD writer and personal computer as shown in figure 9-2A-1. The reference number of D-sub connector can be referred by table 9-2A-2.
2. Connect the CPLD writer cable to the connector on the CPLD writer (VFK1590) as shown in figure 9-2A-1. The part number of cable and reference number of connector can be referred by table 9-2A-2.

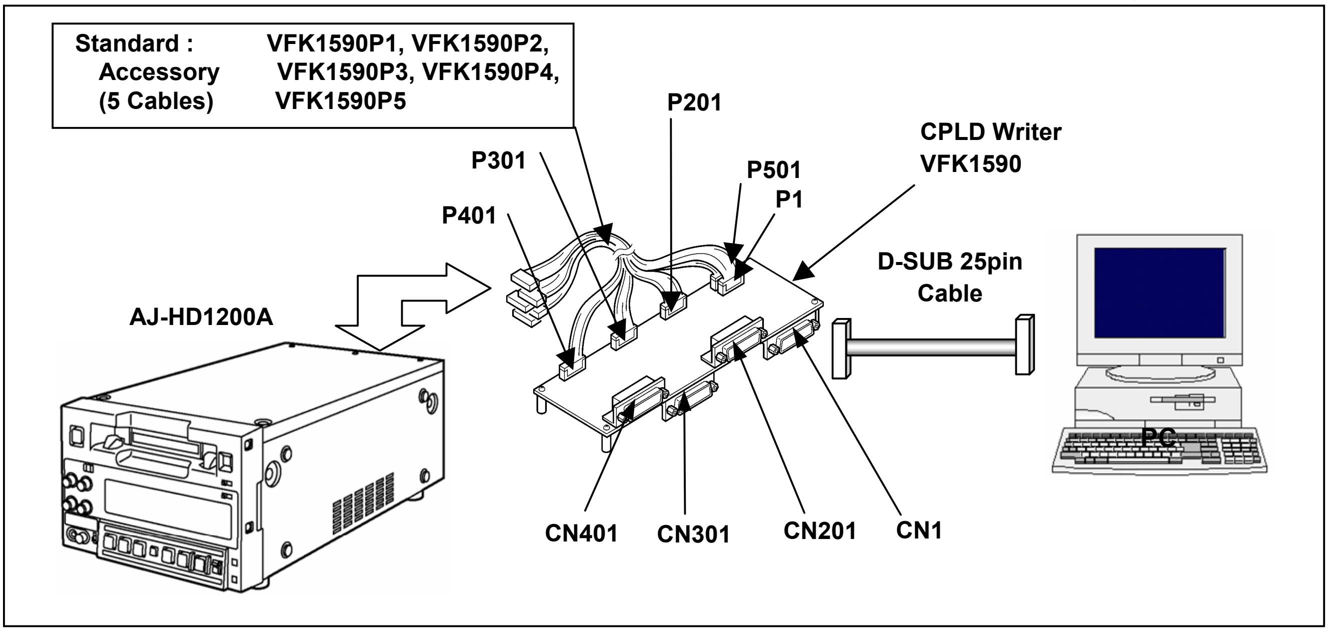

Standard : VFK1590P1, VFK1590P2,
Accessory VFK1590P3, VFK1590P4,
(5 Cables) VFK1590P5
P201
CPLD Writer
VFK1590
P301
P501
P1
P401
D-SUB 25pin
Cable
AJ-HD1200A
PC
CN401
CN301
CN201
CN1

Figure 9-2A-1

IC Manufacture	Connection Between PC / CPLD Writer		Connection Between CPLD Writer / Board	
	Connection Cable	Connector Ref.	Connection Cable	Connector on CPLD Writer
VANTICE	D-SUB 25pin Straight Cable	CN1	VFK1590P1	P1
ALTERA		CN201	VFK1590P2	P201
LATTICE		CN301	VFK1590P3A	P301
XILINX		CN401	VFK1590P4	P401
PHILIPS		CN1	VFK1590P5	P501

* VFK1590P3A is not standard accessory of VFK1590.

▨ : The CPLD which has been used in this VTR.

Table 9-2A-2

3. Connect the PLD writer cable from the PLD writer to the connector on the Board to be upgraded as shown in the table 9-2A-3.
4. Turn on the VTR power and Personal Computer.

Board [Slot No.]	Name of IC	IC Manufacture	Writing Tool	Version Up Software
PROC [F2]	APROC PLD	ALTERA	VFK1590 (CPLD Writer)	Max+plus II
EC_PB [F3]	REC_PB(B) PLD	LATTICE		ispVM System
ERVO [Under Mech]	SERVO PLD	XILINX (1)		Webpack
GEN_SDI [F5] (Option: AJ-YA120AG)	SDI PLD	ALTERA		Max+plus II
DC [F5] (Option: AJ-YA120AG)	UDC PLD	ALTERA		Max+plus II
IF [F3] (Option: AJ-YAD120AG)	1394 PLD	XILINX (2)		VFK1879

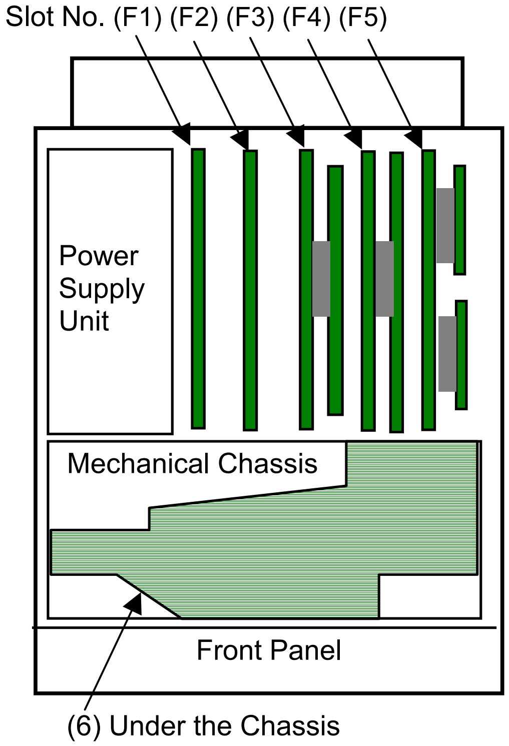
Table 9-2A-3

Board [Slot No.]	Name of PLD	Manufacture	IC Ref, No.	Ref. No.	Data Part No.
APROC [F2]	APROC PLD	ALTERA	IC7	P4002	VVVSI4283A
REC_PB [F3]	REC_PB(B) PLD	LATTICE	IC450, IC551, IC557	P3	VVVSI4285B
SERVO [Under Mech]	SERVO PLD	XILINX	IC350	P350	VVVSI4289A
SGEN_SDI [F5] (Option: AJ-YA120AG)	SDI PLD	ALTERA	IC613	P3	VVVSI4287B
UDC [F5] (Option: AJ-YA120AG)	UDC PLD	ALTERA	IC340, IC600	P700	VVVSI4241B
1394 IF [F3] (Option: AJ-YAD120AG)	1394 PLD	XILINX	IC503 (IC450,IC150)	P500	VVVSI4288C

* The part number of latest version of program software can be confirmed by the Web

Table 9-2A-4

<BOARD LOCATION>


Slot No. (F1) (F2) (F3) (F4) (F5)
Power Supply Unit
Mechanical Chassis
Front Panel
(6) Under the Chassis

(F1)	RF/EQ Board
(F2)	A_PROC Board
(F3)	REC_PB Board
	1394 IF Board (AJ-YAD120AG)
(F4)	UDC Board (AJ-YA120AG)
	V_OUT/SYS Board
(F5)	SGEN/SDI Board (AJ-YA120AG)
	SDI TX Board, SDI RX Board
	(AJ-YA120AG)
(6)	SERVO Board

Figure 9-2A-5

(F2) A PROC BOARD

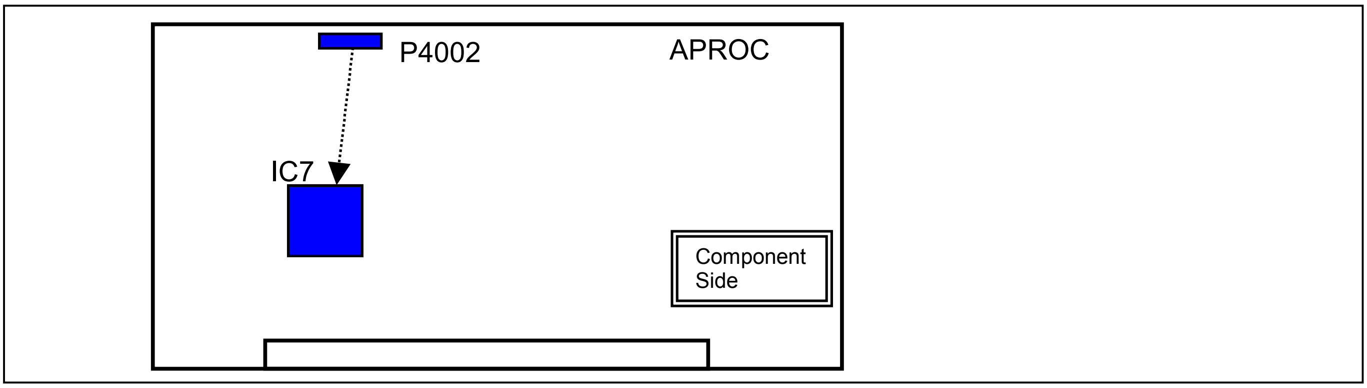

P4002
APROC
IC7
Component
Side

Figure 9-2A-6

(F3) REC PB BOARD

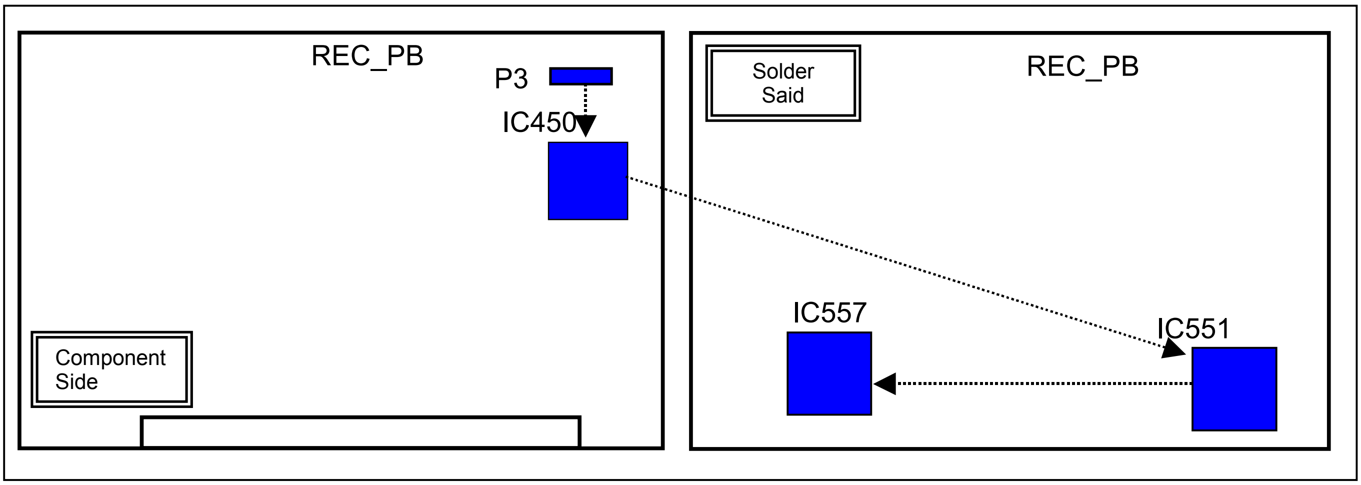

REC_PB
P3
IC450
Component
Side
Solder
Said
REC_PB
IC557
IC551

Figure 9-2A-7

(F3) 1394 IFBOARD

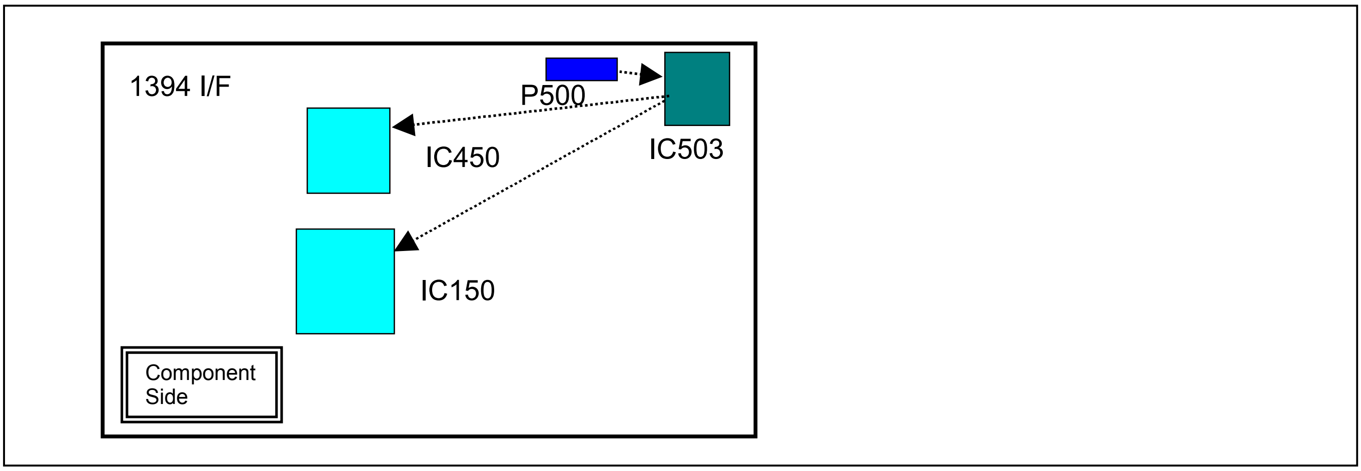

1394 I/F
P500
IC450
IC503
IC150
Component
Side

Figure 9-2A-8

(F4) UDCBOARD

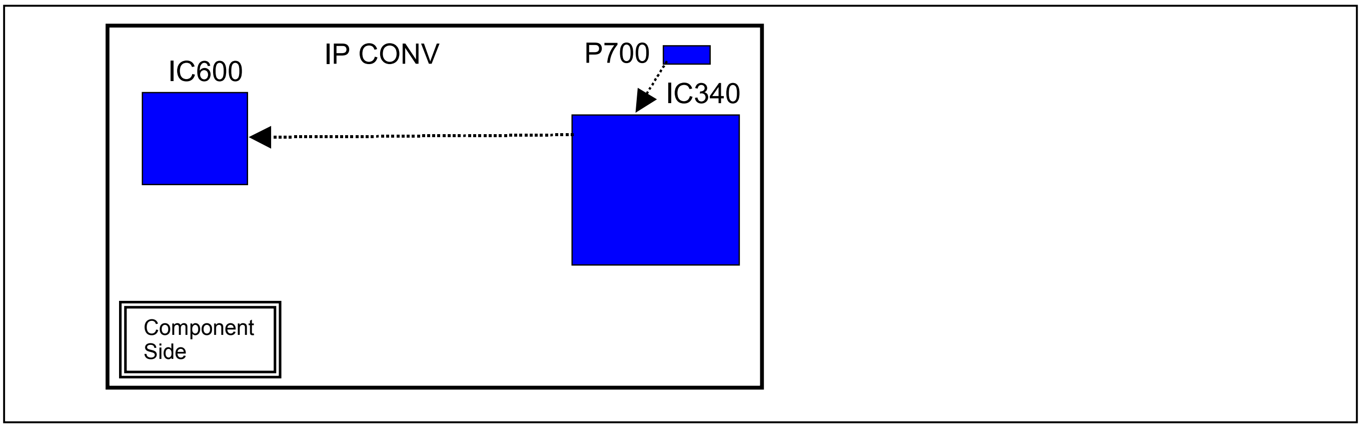

IP CONV
IC600
P700
IC340
Component Side

Figure 9-2A-9

(F5) SGEN SDI BOARD

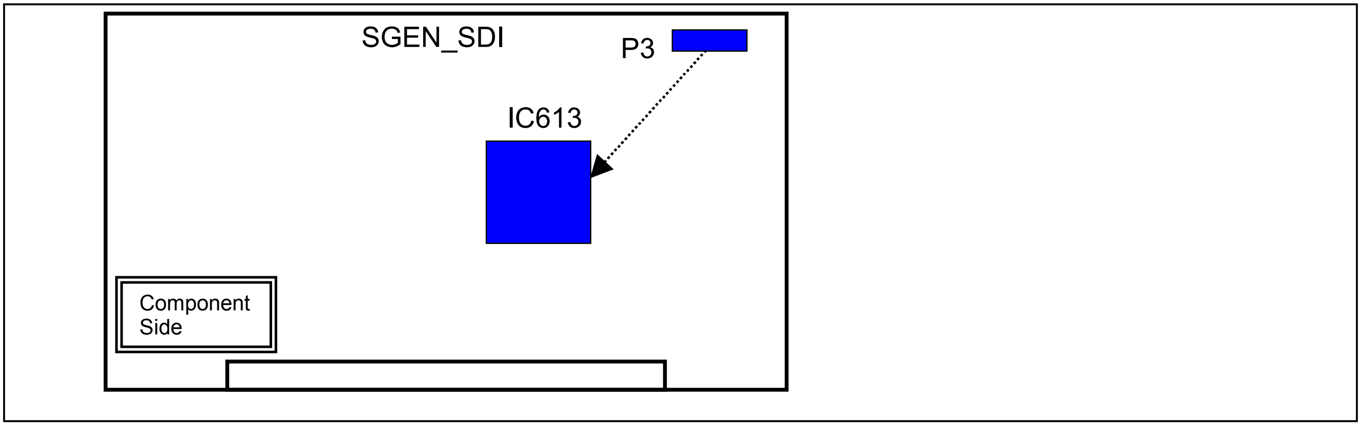

SGEN_SDI
P3
IC613
Component Side

Figure 9-2A-10

(6) SERVO BOARD

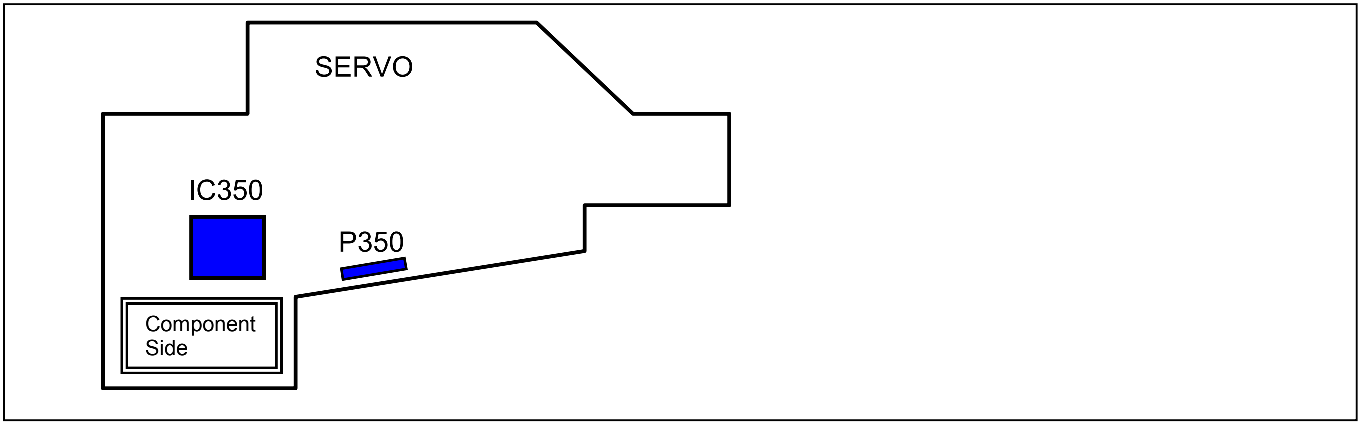

SERVO
IC350
P350
Component Side

Figure 9-2A-11

9-2-2. CPLD Version Upgrade Method (ALTERA)
< APRO, SDI, UDC CPLD IS's>

A. Preparation

ITEM	REMARK
CPLD Writer	VFK1590 VFK1590P2 (Standard Accessory of VFK1590)
D-sub 25pin-25pin Cable	Straight (Mail-Female), Length: Within 1m
Version Upgrade Software	MAX+plus II Software ver9.6 or over ver9.6 (Please access to www.altera.com/support/software/download/sof-download_center.html)
File NAME	jcf File (Included in “vvvsi xxxx” file). (Copy all files of the VVVSI4283A, VVVSI4287B and VVVSI4241B which is included " .jct " file to floppy disk)
Personal Computer	WINDOWS 95® or 98®

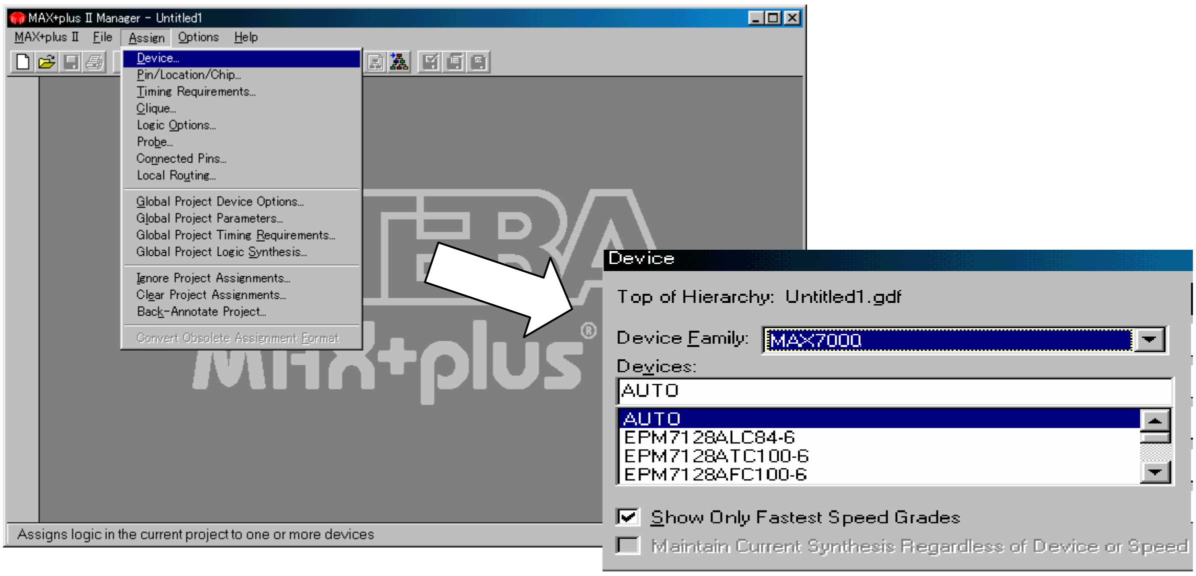
Table 9-2B-1

B. Connection

1. Connect the D-sub Cable between CN201(for ALTERA) connector of the CPLD WRITER (VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P2) between the connector at the Board in the VTR as shown in table 9-2A-4 and connector of the CPLD writer as shown in table 9-2A-3.
3. Turn on the VTR and Personal Computer (Windows mode).

C. Boot up the Ver. up Software and Ver. up Procedure

1. Select "start button" on the Windows Screen and then "Program" and then boot up the "MAX+plus II *** programmer only" so that the following menu appears.
2. On main window, select tab "Assign" and then "Device" → "MAX700"(Device Family) →"AUTO".
3. Insert floppy disk (which is includes all files of the program software VVVSI*** as shown in table 9-2A-4) to floppy drive.


MAX+plus II Manager - Untitled1
MAX+plus II
File
Assign
Options
Help
Device...
Pin/Location/Chip...
Timing Requirements...
Clique...
Logic Options...
Probe...
Connected Pins...
Local Routing...
Global Project Device Options...
Global Project Parameters...
Global Project Timing Requirements...
Global Project Logic Synthesis...
Ignore Project Assignments...
Clear Project Assignments...
Back-Annotate Project...
Convert Obsolete Assignment Format
MAX+plus
Device

Assigns logic in the current project to one or more devices

Top of Hierarchy: Untitled1.gdf

Device Family: MAX7000

Devices: AUTO

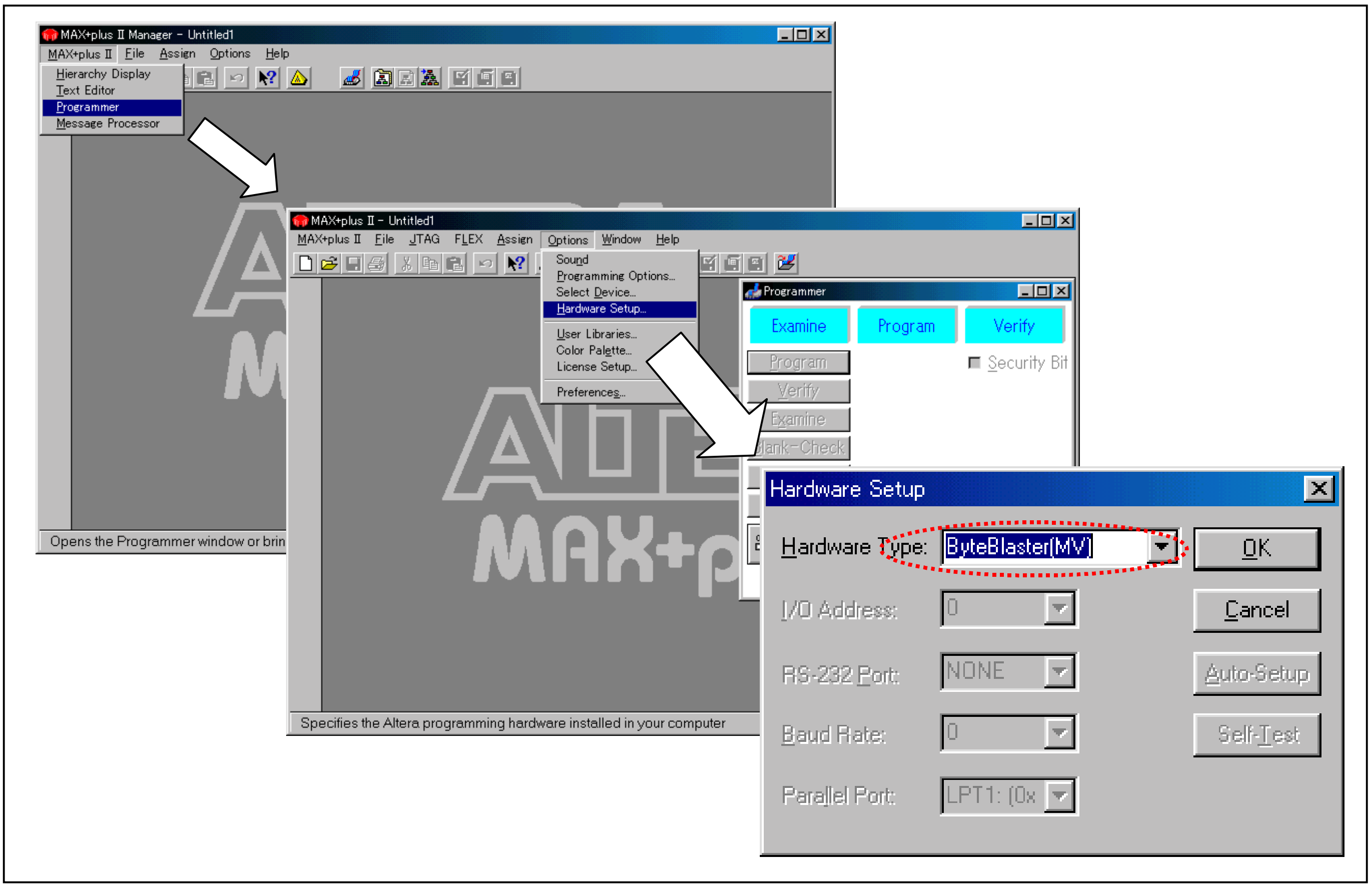
AUTO
EPM7128ALC84-6
EPM7128ATC100-6
EPM7128AFC100-6

☑ Show Only Fastest Speed Grades

☐ Maintain Current Synthesis Regardless of Device or Speed

Figure 9-2B-2

4. On main window, select tab **"MAX+plus II"** and then **"Programmer"**.
5. On main window (Programmer window is displayed), select tab **"Option"** and then **"Hardware Setup"**.
6. On **Hardware Setup** dialog, set the **"Hardware Type"** to **"Byte Blaster (MV)"**.


MAX+plus II Manager - Untitled1
MAX+plus II
File
Assign
Options
Help
Hierarchy Display
Text Editor
Programmer
Message Processor
MAX+plus II - Untitled1
JTAG
FLEX
Window
Sound
Programming Options...
Select Device...
Hardware Setup...
User Libraries...
Color Palette...
License Setup...
Preferences...
Programmer
Examine
Program
Verify
Security Bit
Blank-Check
Hardware Setup
OK
Cancel
Auto-Setup
Self-Test

Opens the Programmer window or brin

Specifies the Altera programming hardware installed in your computer

Hardware Type: ByteBlaster(MV)

I/O Address: 0

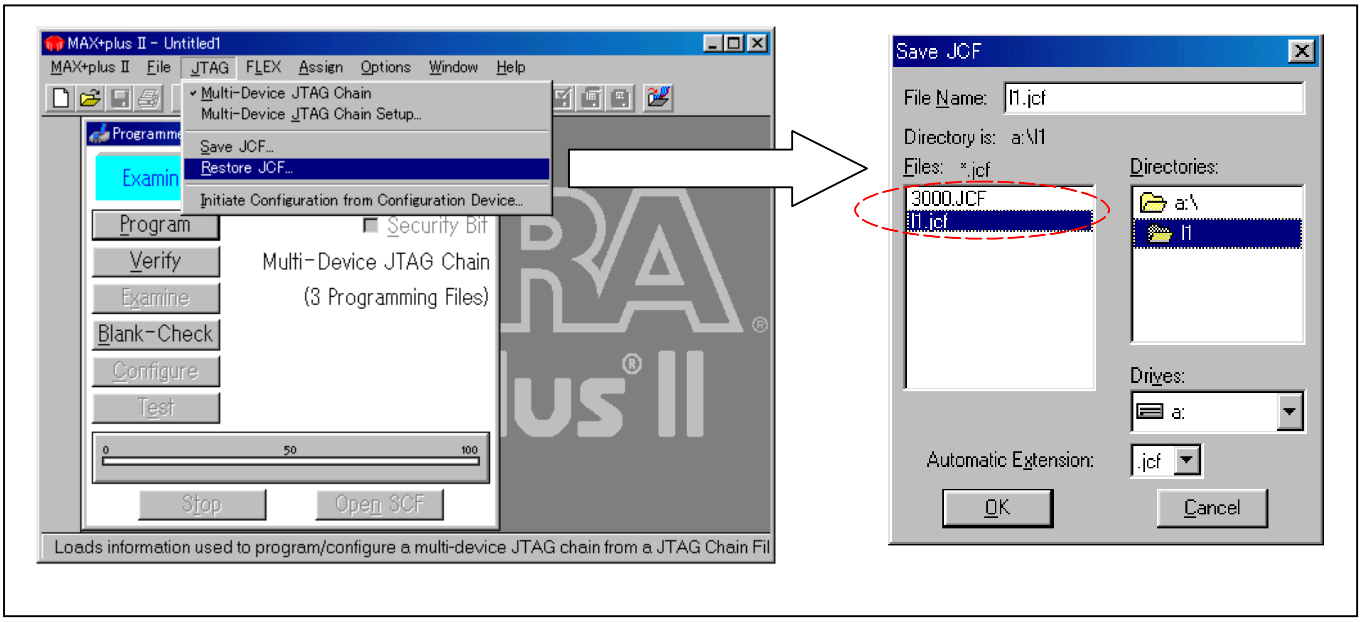
RS-232 Port: NONE

Baud Rate: 0

Parallel Port: LPT1: (0x

Figure 9-2B-3

7. On main window, select tab **"JTAG"**, and then select **"Restore JCF…"**
8. Select the floppy drive and then, select the **"jcf format file (.jcf) on dialog box of Restore JCF"** and then click **"OK"** button.


MAX+plus II - Untitled1
MAX+plus II
File
JTAG
FLEX
Assign
Options
Window
Help
Multi-Device JTAG Chain
Multi-Device JTAG Chain Setup...
Save JCF...
Restore JCF...
Initiate Configuration from Configuration Device...
Programme
Examin
Program
Verify
Examine
Blank-Check
Configure
Test
Security Bit
0
50
100
Stop
Open SCF
Save JCF
Directories:
a:\
I1
Drives:
a:
OK
Cancel

Multi-Device JTAG Chain

(3 Programming Files)

Loads information used to program/configure a multi-device JTAG chain from a JTAG Chain Fil

File Name: I1.jcf

Directory is: a:\I1

Files: *.jcf

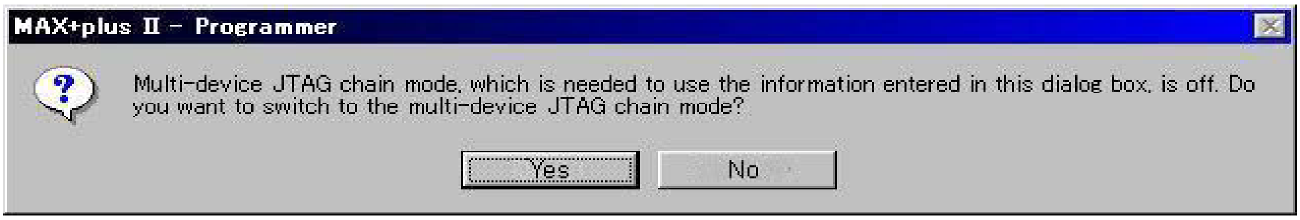
3000.JCF

I1.jcf

Automatic Extension: .jcf

Figure 9-2B-4

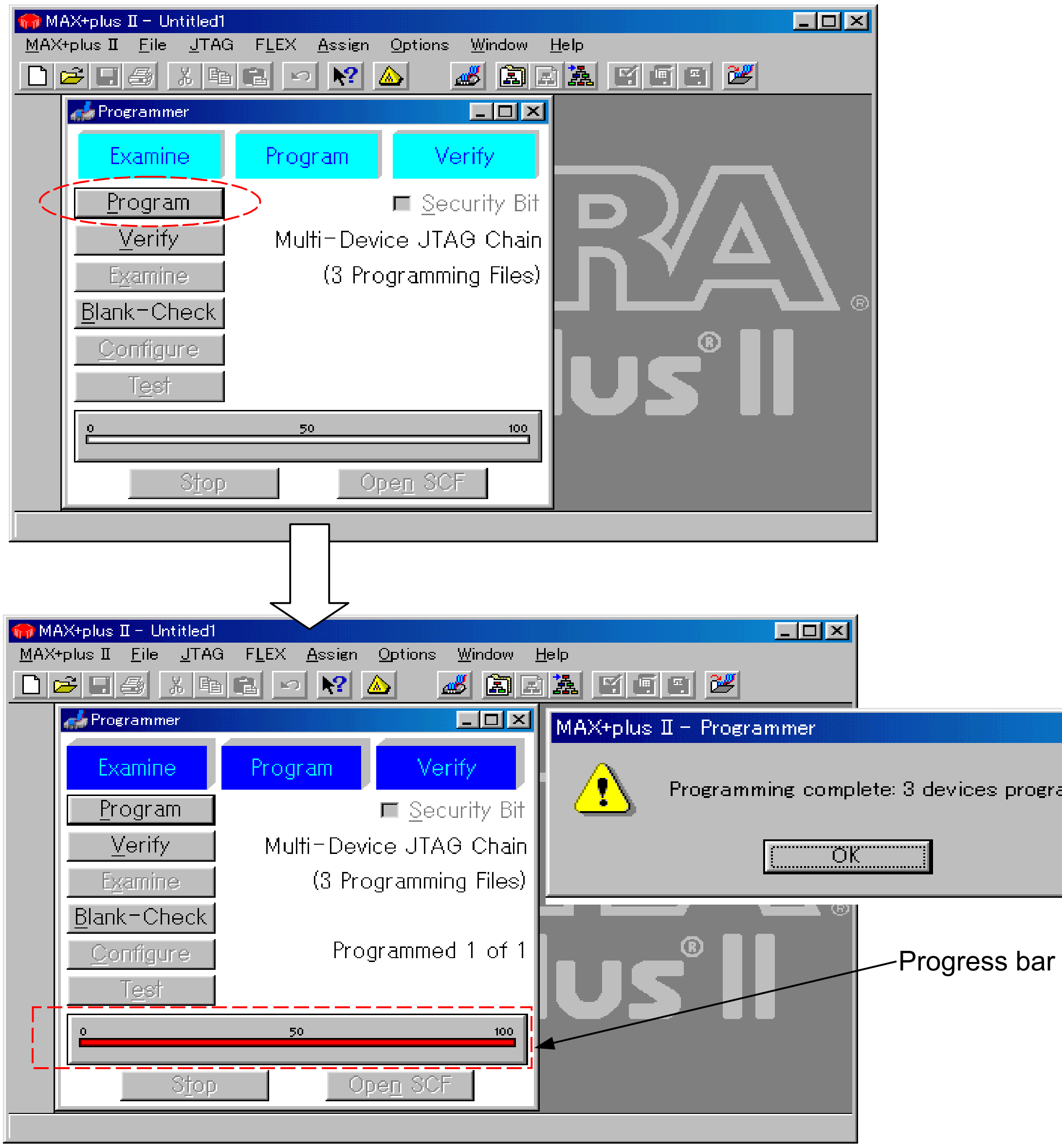
9. If the following message appeared, Click **"Yes"** button.


MAX+plus II – Programmer
Yes
No

Multi-device JTAG chain mode, which is needed to use the information entered in this dialog box, is off. Do you want to switch to the multi-device JTAG chain mode?

Figure 9-2B-5

10. Click the **"Program"** button on Programmer dialog.
11. When Progress Bar reaches at point of **100**, the message "Programming Complete" appears, then PLD version upgrade is completed. Click **"OK"** button on the **Programming complete** message Dialog.
12. Confirm that PLD version of VTR is updated.


MAX+plus II – Untitled1
MAX+plus II
File
JTAG
FLEX
Assign
Options
Window
Help
Programmer
Examine
Program
Verify
Program
Verify
Examine
Blank-Check
Configure
Test
☐ Security Bit
0
50
100
Stop
Open SCF
MAX+plus II – Programmer
OK
Progress bar

Multi-Device JTAG Chain
(3 Programming Files)

Programmed 1 of 1

Programming complete: 3 devices programmed

* MAX+PLUS are registered trademarks of Altera Corporation.

* Windows95 and Windows98 are registered trademarks of Microsoft Corporation.

Figure 9-2B-6

9-2-3. PLD Version Upgrade Method (LATTICE)

< REC_PB PLD IC>

A. Preparation

ITEM	REMARK
CPLD WRITER	VFK1590 VFK1590 VFK1590P3 (Not standard accessory of VFK1590)
D-sub 25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	LSC ispVM System Software : http://www.latticesemi.com/search/browse_type.cfm?catid=131&ty=65 and select **"ispVM System 13.2 for PC"** in programming software portion in order to download it.
File NAME	jcf File (Included in "VVVSI 4285B" file). (Copy all files of VVVSI 4285B which is included " .jct " file to floppy disk)
Personal Computer	WINDOWS 95® or 98®

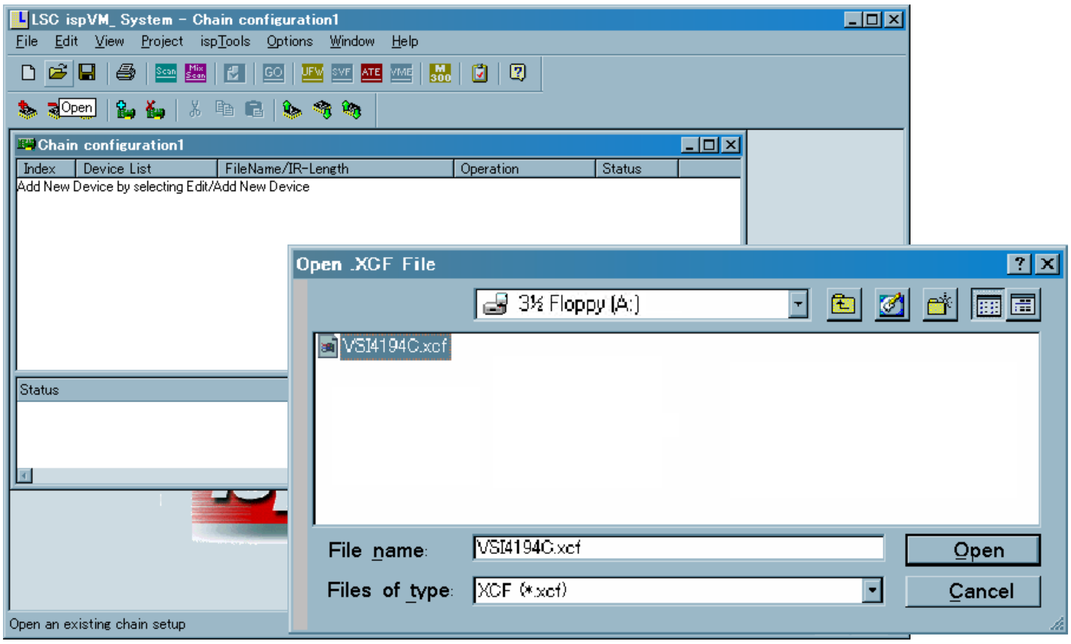
Table 9-2C-1

B. Connection

1. Connect the D-sub Cable between CN301 (for ALTERA) connector of the CPLD WRITER (VFK1590) and Personal Computer (Printer port) as shown table 9-2A-2.
2. Connect the CPLD WRITER Cable (VFK1590P3A) between the connector at the Board in the VTR as shown in table 9-2A-2 and 9-2A-4.
   <Note> VFK1590P3A is not standard accessory of VFK1590.
3. Turn on the VTR and Personal Computer (Windows mode).

C. Boot up the Ver. up Software and Ver. up Procedure

1. Select **"start button"** on the Windows Screen and then **"Program",** and then boot up the **"LSCispVM System"** so that the following menu appears.
2. Insert floppy disk (which is includes all files of the program software VVVSI4285B as shown in table 9-2A-4) to floppy drive.
3. On main window, select tab **"File"** and then **"Open"** .
4. Open the program data file as shown table 9-2A-4.


LSC ispVM_ System - Chain configuration1
File
Edit
View
Project
ispTools
Options
Window
Help
Scan
Mix Scan
GO
UFW
SVF
ATE
VME
M 300
Open
Chain configuration1
Index
Device List
FileName/IR-Length
Operation
Status
Status
Open .XCF File
3½ Floppy [A:]
VSI4194C.xcf
Open
Cancel

Add New Device by selecting Edit/Add New Device

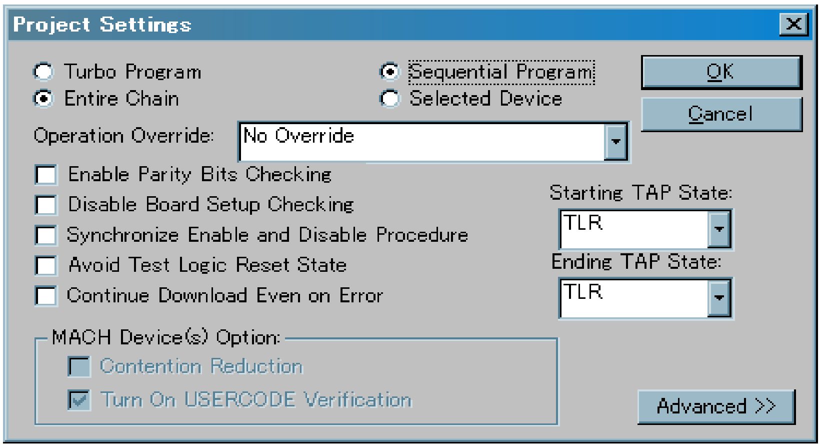
File name: VSI4194C.xcf

Files of type: XCF (*.xcf)

Open an existing chain setup

Figure 9-2C-2

5. On main windows, select **“Project”** and then **“Project Settings”** as shown in the figure below.
6. Make sure that the **“Sequential Program”** has been set at the first line. (Do not set “Turbo Program”.)



Project Settings

○ Turbo Program
● Entire Chain
● Sequential Program
○ Selected Device

Operation Override: No Override

☐ Enable Parity Bits Checking
☐ Disable Board Setup Checking
☐ Synchronize Enable and Disable Procedure
☐ Avoid Test Logic Reset State
☐ Continue Download Even on Error

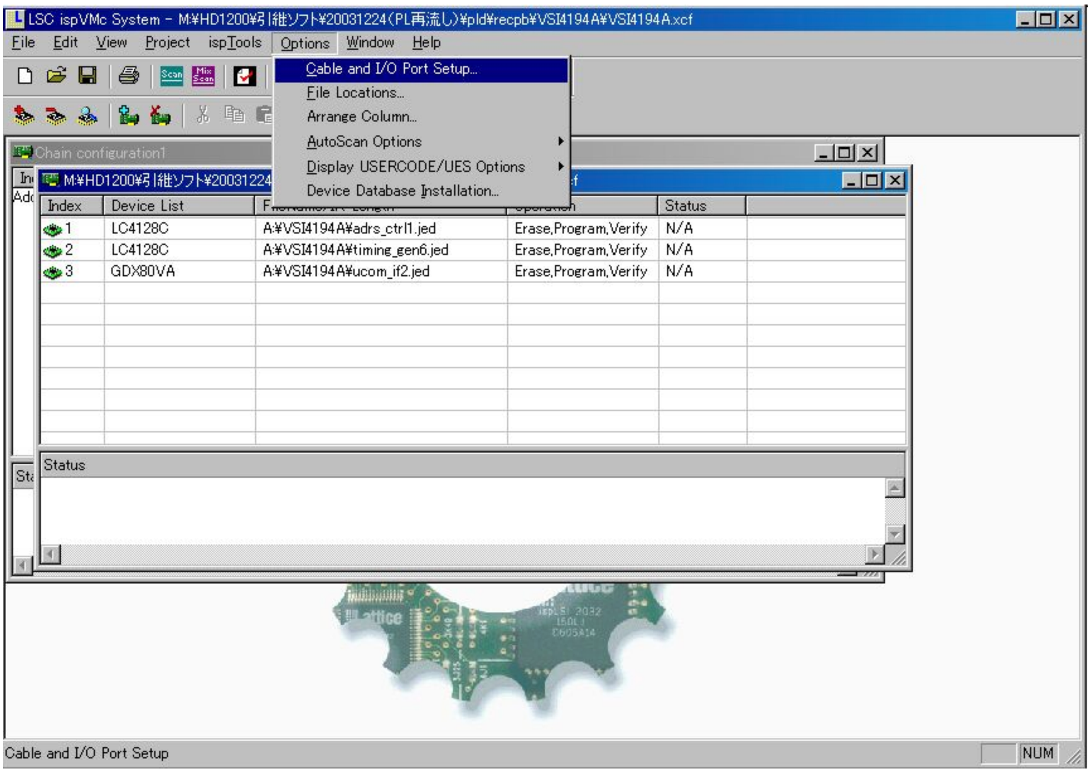
Starting TAP State: TLR
Ending TAP State: TLR

MACH Device(s) Option:
☐ Contention Reduction
☑ Turn On USERCODE Verification

OK
Cancel
Advanced >>

Figure 9-2C-3

7. On main windows, select tab **“Options”**, and then select **“Cable and I/O Port Setup”**.



LSC ispVMc System - M:¥HD1200¥引継ソフト¥20031224(PL再流し)¥pld¥recpb¥VSI4194A¥VSI4194A.xcf

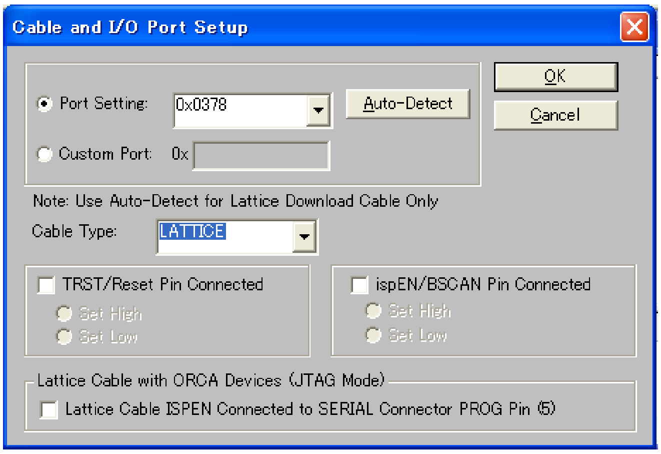
File
Edit
View
Project
ispTools
Options
Window
Help
Cable and I/O Port Setup...
File Locations...
Arrange Column...
AutoScan Options
Display USERCODE/UES Options
Device Database Installation...
Chain configuration1
M:¥HD1200¥引継ソフト¥20031224

Index	Device List	F		Status
1	LC4128C	A:¥VSI4194A¥adrs_ctrl1.jed	Erase,Program,Verify	N/A
2	LC4128C	A:¥VSI4194A¥timing_gen6.jed	Erase,Program,Verify	N/A
3	GDX80VA	A:¥VSI4194A¥ucom_if2.jed	Erase,Program,Verify	N/A

Status
Cable and I/O Port Setup
NUM

Figure 9-2C-4

8. Make sure that the “Cable Type” is “LATTICE”, if it is not, set it as “LATTICE” and then “OK”.


Cable and I/O Port Setup
OK
Cancel
Auto-Detect

● Port Setting: 0x0378

○ Custom Port: 0x

Note: Use Auto-Detect for Lattice Download Cable Only

Cable Type: LATTICE

☐ TRST/Reset Pin Connected
○ Set High
○ Set Low

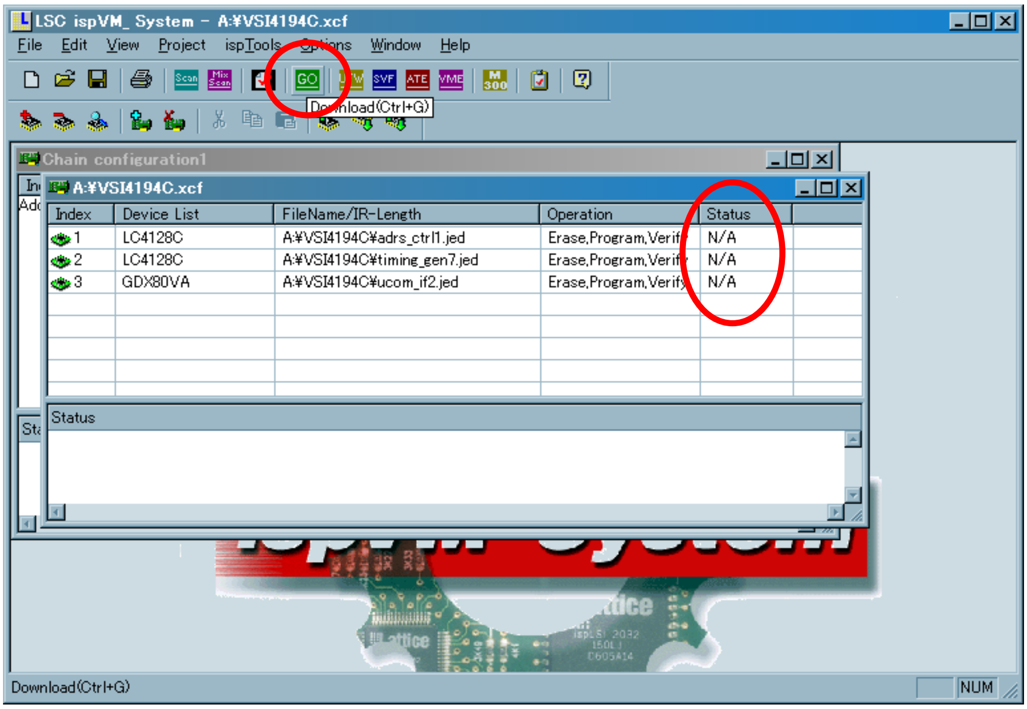
☐ ispEN/BSCAN Pin Connected
○ Set High
○ Set Low

Lattice Cable with ORCA Devices (JTAG Mode)

☐ Lattice Cable ISPEN Connected to SERIAL Connector PROG Pin (5)

Figure 9-2C-5

9. On main windows, click “GO” button as shown in the figure below and then the version upgrade will start.
10. After completion of version upgrade, all status columns show “PASS” as shown the figure below.


LSC ispVM_ System - A:¥VSI4194C.xcf
File Edit View Project ispTools Options Window Help
GO
Download(Ctrl+G)
Chain configuration1
A:¥VSI4194C.xcf
Status
Download(Ctrl+G)
NUM

Index	Device List	FileName/IR-Length	Operation	Status
1	LC4128C	A:¥VSI4194C¥adrs_ctrl1.jed	Erase,Program,Verif	N/A
2	LC4128C	A:¥VSI4194C¥timing_gen7.jed	Erase,Program,Verif	N/A
3	GDX80VA	A:¥VSI4194C¥ucom_if2.jed	Erase,Program,Verify	N/A

Figure 9-2C-6

9-2-4. PLD (FPGA) Version up Method (XILINX) [1]
<SERVO CPLD IC>

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	XILINX WebPACK ISE Programmer (iMPACT) Software Please download from the following URL http://www.xilinx.com/support/download.htm 1. Open this page and then select "WebPACK ISE". 2. Before downloading, registration is required to get ID and Password. 3. After registration, click "Download ISE WebPACK" button. 4. Select "CUSTOM" in "Typical Download Configurations" menu. 5. Check **"FPGA Prog."** in "Custom Design Configuration" page. 6. Click Download button. 7. Follow the instruction of next page.
Version Upgrade Data	cdf File (Included in VVVSI4289A file). (Copy all files of the VVVSI4289A which is included " *.cdf " file to floppy disk)
Personal Computer	WINDOWS 95® or 98®

Table 9-2D-1

B. Connection and Preparation

1. Connect the D-sub Cable between CN401 (for XILINX) connector of the CPLD WRITER (VFK1590) and Personal Computer. (Refer to figure 9-2A-1 and table 9-2A-2)
2. Connect the CPLD WRITER Cable (VFK1590P4) between PLD version up connector on the relevant board and P401 connector of CPLD WRITER. (Refer to figure 9-2A-1 and tables 9-2A-2, 9-2A-4)
3. Turn on the VTR and Personal Computer (Windows mode).

C. Boot up the Ver. Up Software and Ver. up Procedure

1. Select **"Start button"** on the Windows Screenand then **"Program"** and then boot up the **"Xilinx CPLD Webpack"** so that the menu appears as shown in figure 9-2D-2.

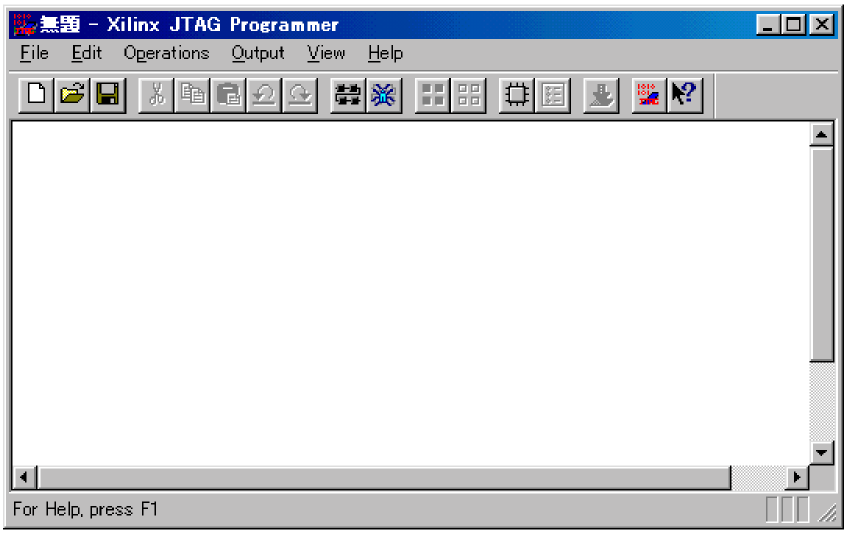
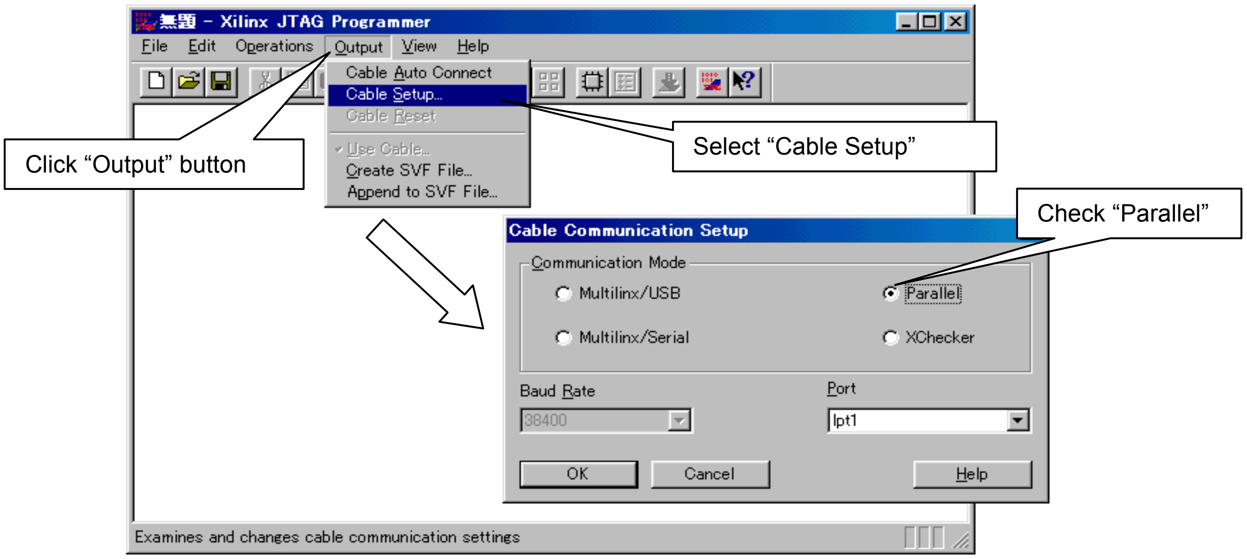


Figure 9-2D-2

2. On main window, select tab **"Output"** and then **"Cable Setup"** → **"Cable Communication Setup"** → **"Communication Mode"** → **"Communication Setup"** → **"Parallel"** as shown in figure 9-2D-3.


無題 - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
Cable Auto Connect
Cable Setup...
Cable Reset
Use Cable...
Create SVF File...
Append to SVF File...
Cable Communication Setup
Multilinx/USB
Multilinx/Serial
XChecker
OK
Cancel
Help

Click “Output” button

Select “Cable Setup”

Check “Parallel”

Communication Mode: ● Parallel

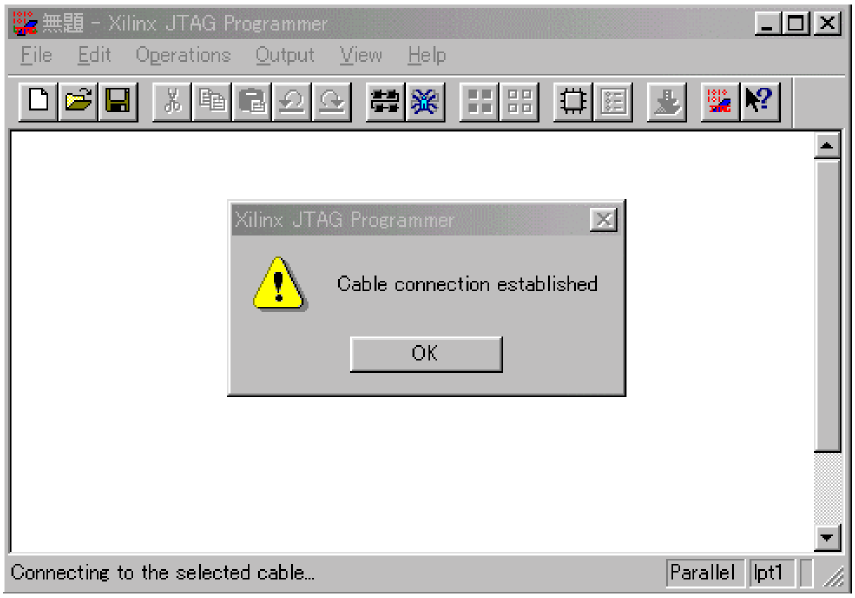
Baud Rate: 38400

Port: lpt1

Examines and changes cable communication settings

Figure 9-2D-3

3. If the cable communication is correct, the message sa shown in fugure 9-2D-4 appears.


無題 - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
Xilinx JTAG Programmer
OK

Cable connection established

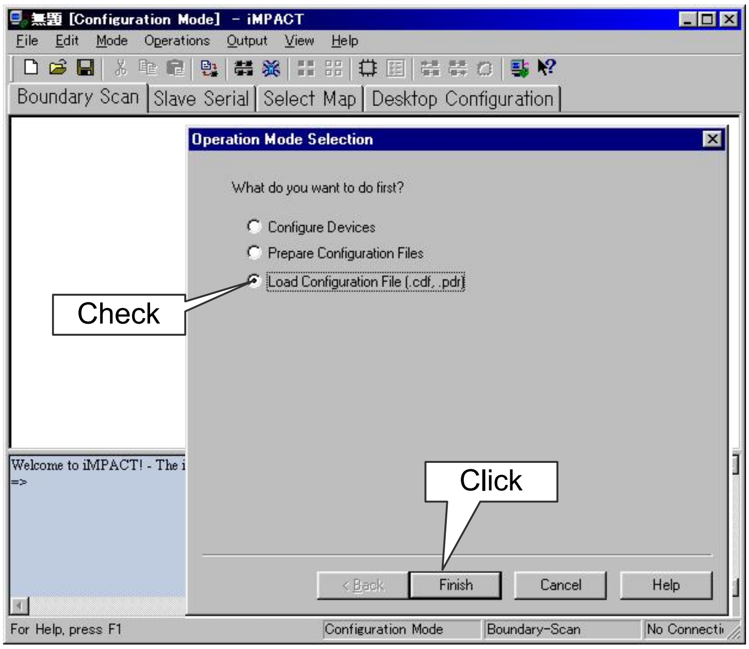
Connecting to the selected cable...

Parallel lpt1

Figure 9-2D-4

4. Click **"OK"** button.

5. Insert floppy disk (which is includes all files of the VVVSI4289A) to floppy drive.
6. Install the WebPACK ISE program. “Xilinx Webpack” folder is created on windows.
7. Click the start button of windows and select "Program" and “Xilinx Webpack”.
8. Select the "Device Programer" and then following screen appears.
9. Check the "Load Configuration Files", and click "Finish" button.


無題 [Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
Operation Mode Selection
Check
Click
< Back
Finish
Cancel
Help
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

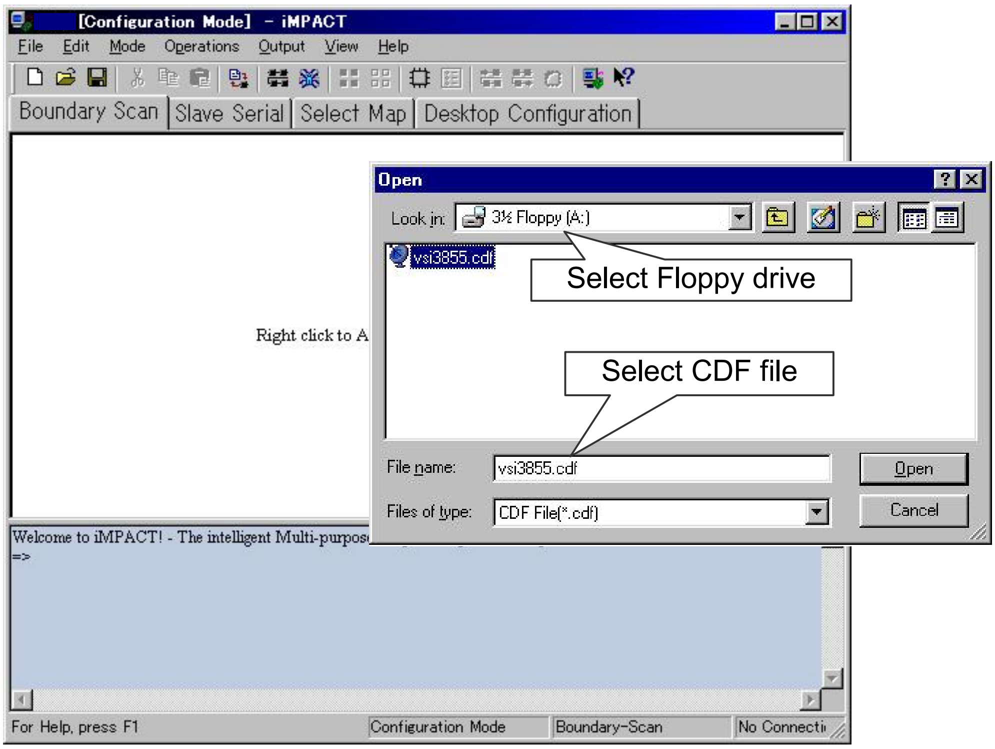
What do you want to do first?

○ Configure Devices
○ Prepare Configuration Files
● Load Configuration File (.cdf, .pdr)

Welcome to iMPACT! - The i
=>

Figure 9-2D-5

10. Select the floppy drive and then select the **“.cdf ”** file.
(CDF is **C**hain **D**escription **F**ile, This file can write several CPLDs on the same board like a chain.)
11. Click the **“Open”** button.


[Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
Open
Select Floppy drive
Select CDF file
Open
Cancel
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

Look in: 3½ Floppy (A:)

vsi3855.cdf

File name: vsi3855.cdf

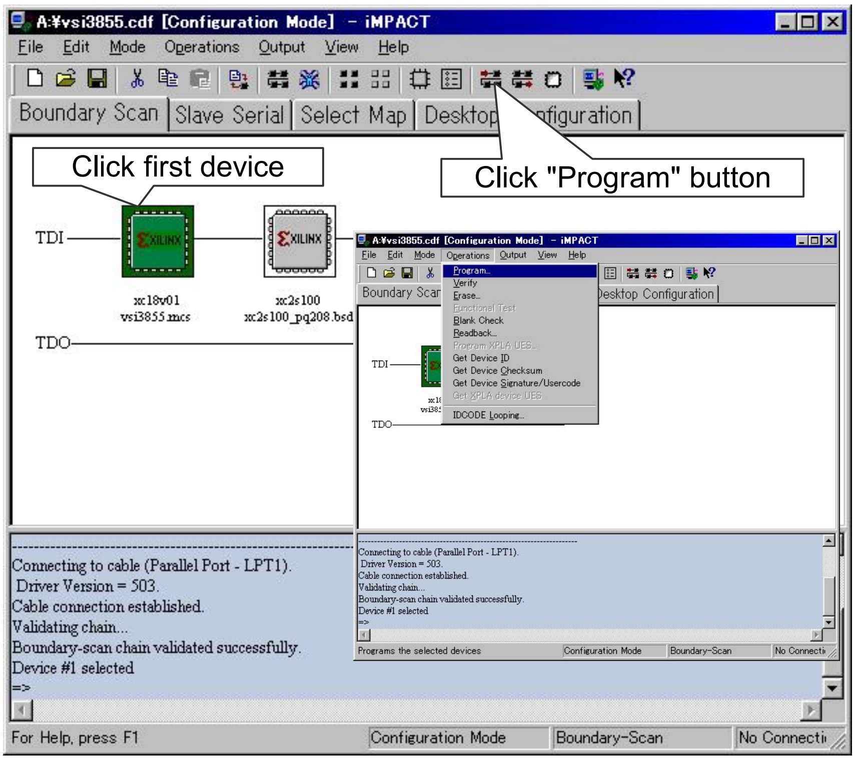
Files of type: CDF File(*.cdf)

Right click to A

Welcome to iMPACT! - The intelligent Multi-purpos
=>

Figure 9-2D-6

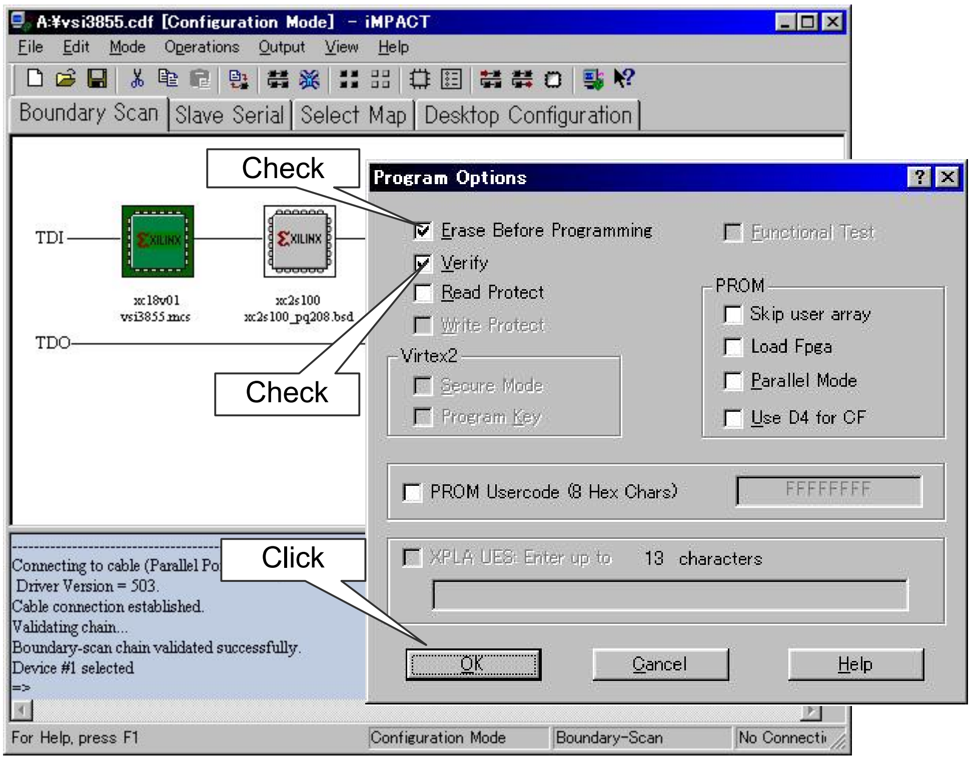
12. Click the first device (change the color to green) then click the **"program"** button to open the **"Program Options"** dialog box or select **"Operations"** in the menu then select **"Program"**.


A:¥vsi3855.cdf [Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
Click first device
Click "Program" button
TDI
TDO
XILINX
xc18v01
vsi3855.mcs
xc2s100
xc2s100_pq208.bsd
Program...
Verify
Erase...
Functional Test
Blank Check
Readback...
Program XPLA UES...
Get Device ID
Get Device Checksum
Get Device Signature/Usercode
Get XPLA device UES
IDCODE Looping...
Programs the selected devices
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

```
Connecting to cable (Parallel Port - LPT1).
 Driver Version = 503.
Cable connection established.
Validating chain...
Boundary-scan chain validated successfully.
Device #1 selected
=>
```

Figure 9-2D-7

13. Check the **"Erase Before Programming"** and **"Verify"** in the dialog box of Program Options.

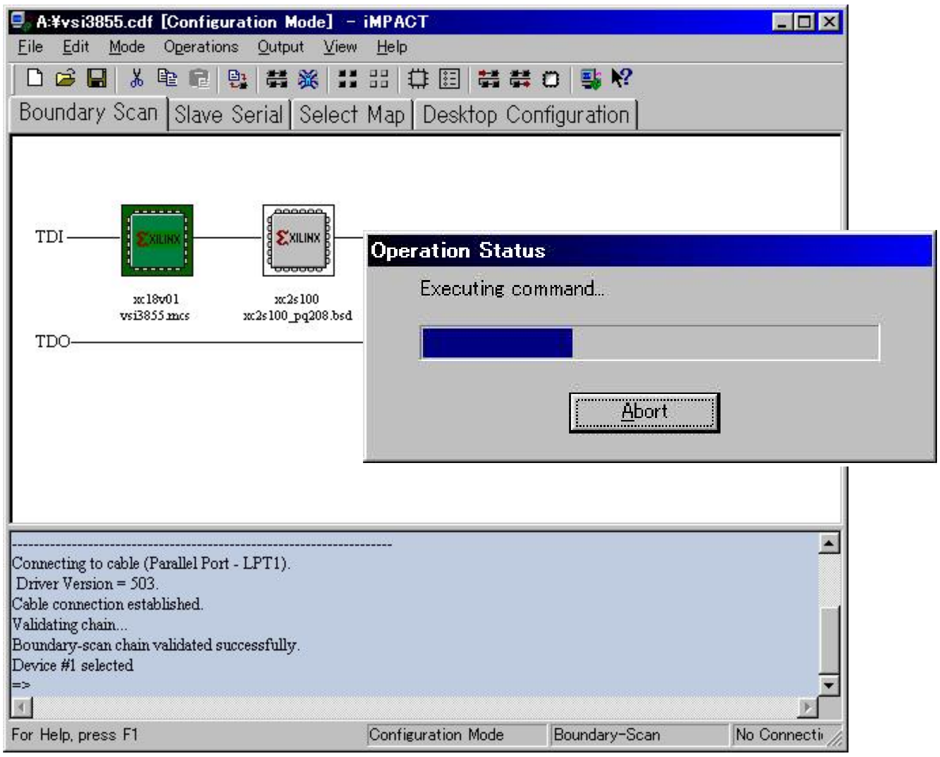

A:¥vsi3855.cdf [Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
Check
Check
Click
TDI
TDO
xc18v01
vsi3855.mcs
xc2s100
xc2s100_pq208.bsd
Program Options
OK
Cancel
Help
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

☑ Erase Before Programming
☑ Verify
☐ Read Protect
☐ Write Protect
Virtex2
☐ Secure Mode
☐ Program Key
☐ Functional Test
PROM
☐ Skip user array
☐ Load Fpga
☐ Parallel Mode
☐ Use D4 for CF
☐ PROM Usercode (8 Hex Chars) FFFFFFFF
☐ XPLA UES: Enter up to 13 characters

```
Connecting to cable (Parallel Po
 Driver Version = 503.
Cable connection established.
Validating chain...
Boundary-scan chain validated successfully.
Device #1 selected
=>
```

Figure 9-2D-8

14. Then click **“OK”** button to start the programming and verifying.

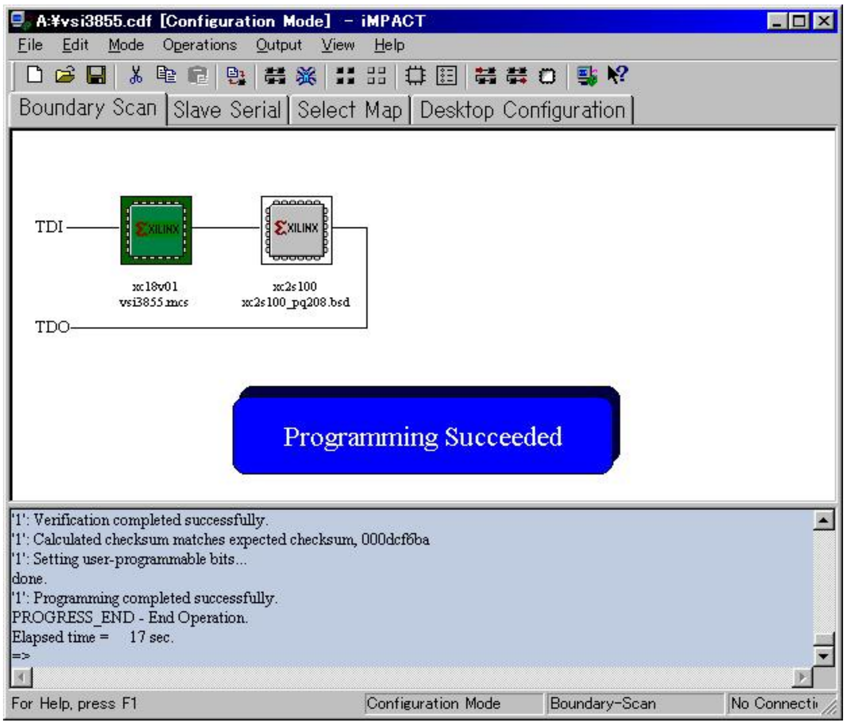

A:¥vsi3855.cdf [Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
TDI
TDO
XILINX
xc18v01
vsi3855.mcs
xc2s100
xc2s100_pq208.bsd
Operation Status
Abort
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

Executing command...

```
--------------------------------------------------------------------
Connecting to cable (Parallel Port - LPT1).
 Driver Version = 503.
Cable connection established.
Validating chain...
Boundary-scan chain validated successfully.
Device #1 selected
=>
```

Figure 9-2D-9

15. When the programming is completed. the dialog as shown in figure 9-2D-10 appears.
16. Confirm that PLD version of VTR is updated.


A:¥vsi3855.cdf [Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
TDI
TDO
XILINX
xc18v01
vsi3855.mcs
xc2s100
xc2s100_pq208.bsd
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

Programming Succeeded

```
'1': Verification completed successfully.
'1': Calculated checksum matches expected checksum, 000dcf6ba
'1': Setting user-programmable bits...
done.
'1': Programming completed successfully.
PROGRESS_END - End Operation.
Elapsed time =      17 sec.
=>
```

Figure 9-2D-10

9-2-5. PLD (FPGA) Version up Method (XILINX) [2]

<1394 CPLD IC>

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	VFK1879 (xsvf file) Please download from our web site
Version Upgrade Data	(Copy all files of the VVVSI4288C which is included " *.cdf " file to floppy disk)
Personal Computer	WINDOWS 95® or 98®

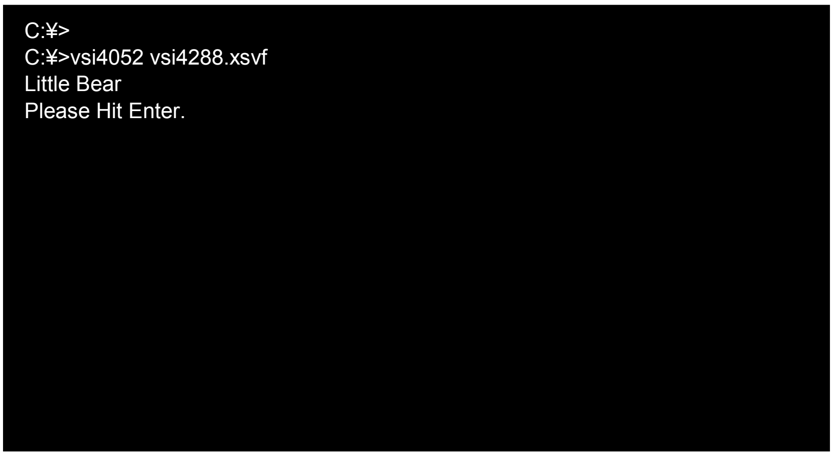
Table 9-2E-1

B. Connection and Preparation

1. Connect the D-sub Cable between CN401 (for XILINX) connector of the CPLD WRITER (VFK1590) and Personal Computer (Refer to figure 9-2A-1 and table 9-2A-2)
2. Connect the CPLD WRITER Cable (VFK1590P4) between PLD version up connector on the relevant board and P401 connector of CPLD WRITER. (Refer to figure 9-2A-1 and tables 9-2A-2, 9-2A-4)
3. Turn on the VTR and Personal Computer (Windows mode).

C. Boot up the Ver. Up Software and Ver. up Procedure

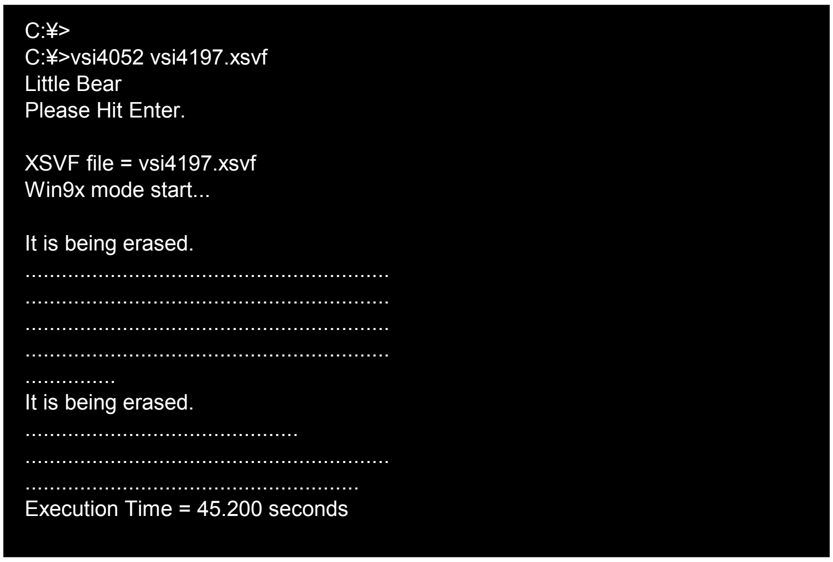
1. Insert floppy disk (which is includes all files of the VVVSI4288C) to floppy drive. (Refer to table 9-2A-4)
2. Install the version upgrade software (VFK1879) and open the DOS window as shown in figure 9-2E-2.
3. Press ther "ENTER" key, when the screen as shown in figure 9-2E-2 appears.
4. The programming takes about 3 seconds.



```
C:¥>
C:¥>vsi4052 vsi4288.xsvf
Little Bear
Please Hit Enter.
```

Figure 9-2E-2

5. When the programming is completed, the screen as shown in figre 9-2E-3 appears.



```
C:¥>
C:¥>vsi4052 vsi4197.xsvf
Little Bear
Please Hit Enter.

XSVF file = vsi4197.xsvf
Win9x mode start...

It is being erased.
........................................................
........................................................
........................................................
........................................................
..............
It is being erased.
..........................................
........................................................
....................................................
Execution Time = 45.200 seconds
```

Figure 9-2E-3

6. Turn off and on the power of VTR in order to reboot the machine.
7. Confirm that the CPLD version of VTR is updated.
8. Turn off the VTR power and then CPLD writer tool and cables.

10. NODE UNIQUE ID (UID)

10-1. Confirmation of UID Number

IEEE1394 I/F Board (AJ-YAD120AG) has “Node Unique ID”. This UID number is displayed in the DIF STATUS MENU in the DIAG MENU

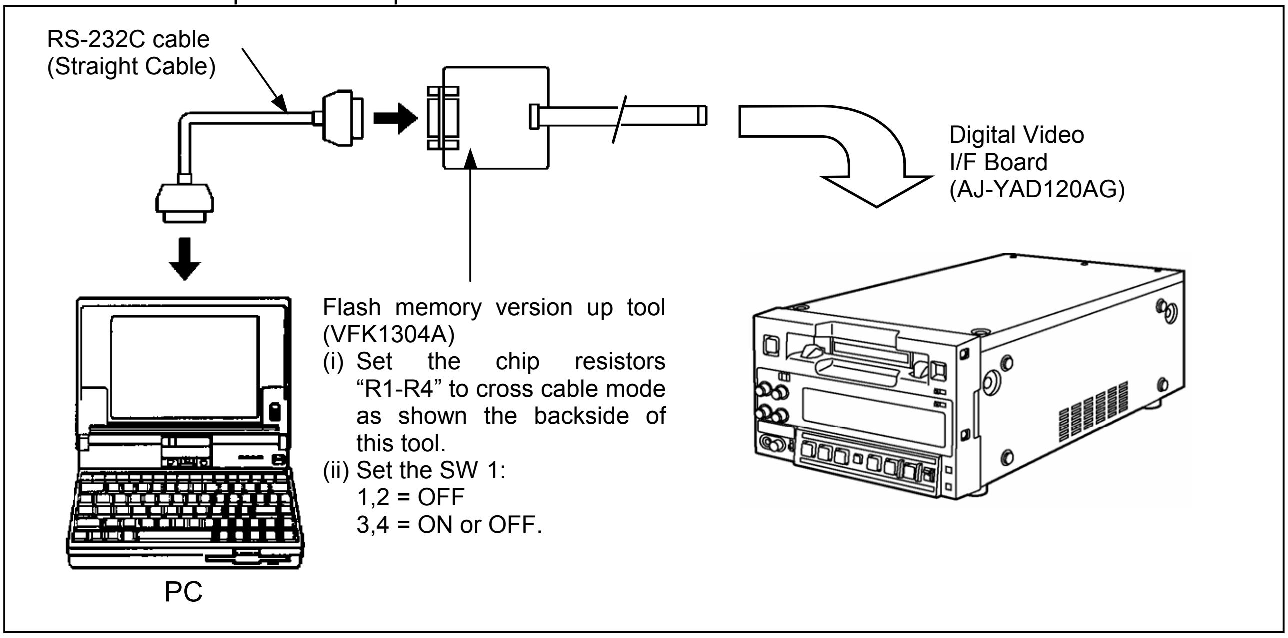
1. Connect a monitor TV to the Line Output of the VTR.
2. Open the “DIAG MENU”.
3. Press the “Search” button twice so that the **“DIF STATUS”** and **“UID Number”** are displayed on the monitor TV. (Refer to Paragraph 7, 7-1.)

10-2. Writing UID

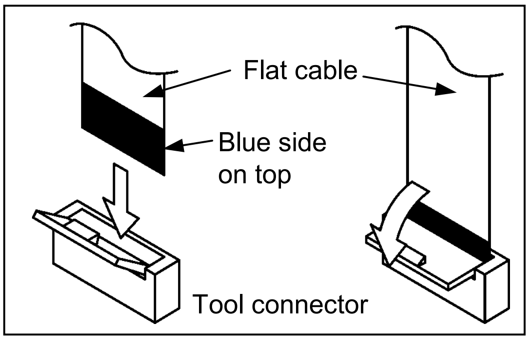
<Important Note>

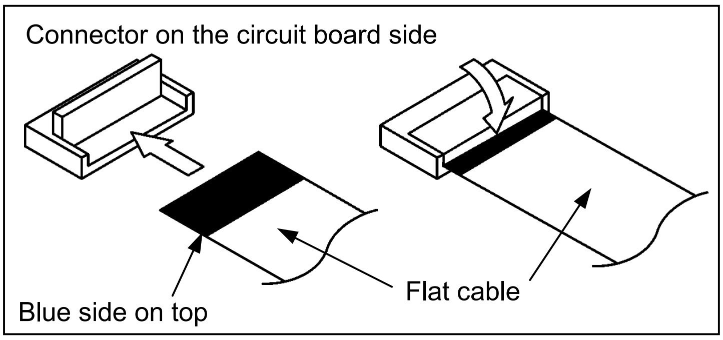
The UID number should not be changed from the original one.
If the original UID number is needed, contact Panasonic Service Engineering.

1. Connect the “Flash memory version up tool (VFK1304A)” between the connector (P2) on AJ-YAD120AG in the VTR and personal computer as shown below.


RS-232C cable
(Straight Cable)
Digital Video
I/F Board
(AJ-YAD120AG)
PC

Flash memory version up tool (VFK1304A)
(i) Set the chip resistors “R1-R4” to cross cable mode as shown the backside of this tool.
(ii) Set the SW 1:
1,2 = OFF
3,4 = ON or OFF.


Flat cable
Blue side
on top
Tool connector


Connector on the circuit board side
Blue side on top
Flat cable

2. Make sure that the direction of the flat cable connection (face side and reverse side of flate cable) to the tool (VFK1304A).
   Set the flat cable to the connector as shown in the figures below.

3. Set the VFK1304A in the “CROSS CABLE” mode as shown the backside of the tool but the actual connection cable should be straight cable.
4. Set the DIP switch SW3301-1 to ON, and SW3301-2, 3 and 4 are “OFF”.
5. Turn “ON” the personal computer power.

6. Start up the Hyper Terminal of Windows 95/98 on the personal computer.
   (Programs of Windows → Accessories → Hyper Terminal → Hypertrm.exe)
   Name the Hyper Terminal "1394", and select an icon.
   Select the connection method. (Connecting using: Direct to COM*)
   Perform settings of the Port. (Bits per second: 9600, Data bits: 8, Parity: None, Stop bits: 1, Flow control: None)
   File → Properties → Settings → ASCII Setup → put a mark on the "Append line feeds to incoming line ends" of ASCII Receiving.
7. Turn “ON” the VTR power.
8. The initial screen of Debug Monitor appears on the Hyper Terminal screen.

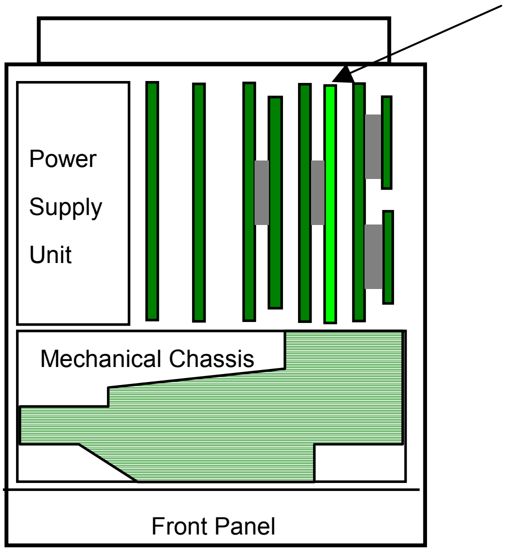
```
********************************************************************************
*                            -- Debug Monitor --                               *
*   Copyright(C) 1997-2003, Matsushita Electric Industrial Co., Ltd.           *
*                            All right reserved                                *
********************************************************************************
```

9. Press the Enter key, and confirm that "MON >>" appears.
10. Input the UID command "MON >>uid ********", which is the 8 digits of the second half of the UID. (The 8 digits of the first half are always 00804582.)
11. Confirm that "&OK" and "MON >>" appear.
12. Close the software "Hyper Terminal". Turn “OFF” the power of the VTR.
13. Set the DIP switch SW3301-1 to “OFF”

11. Service Menu

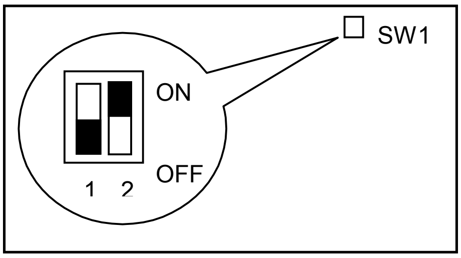
11-1. Service Menu Operation

1. Set the pin 2 of SW1 on the VOUT_SYS Board to the “ON” position.



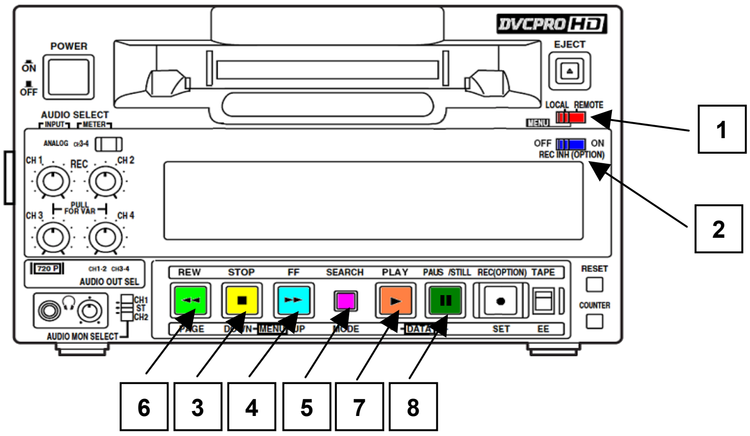
(F4) VOUT/SYS Board
Power Supply Unit
Mechanical Chassis
Front Panel

	Factory setting	Service Menu
SW1-1	OFF	---------
SW1-2	OFF	ON



SW1
ON
OFF
1
2

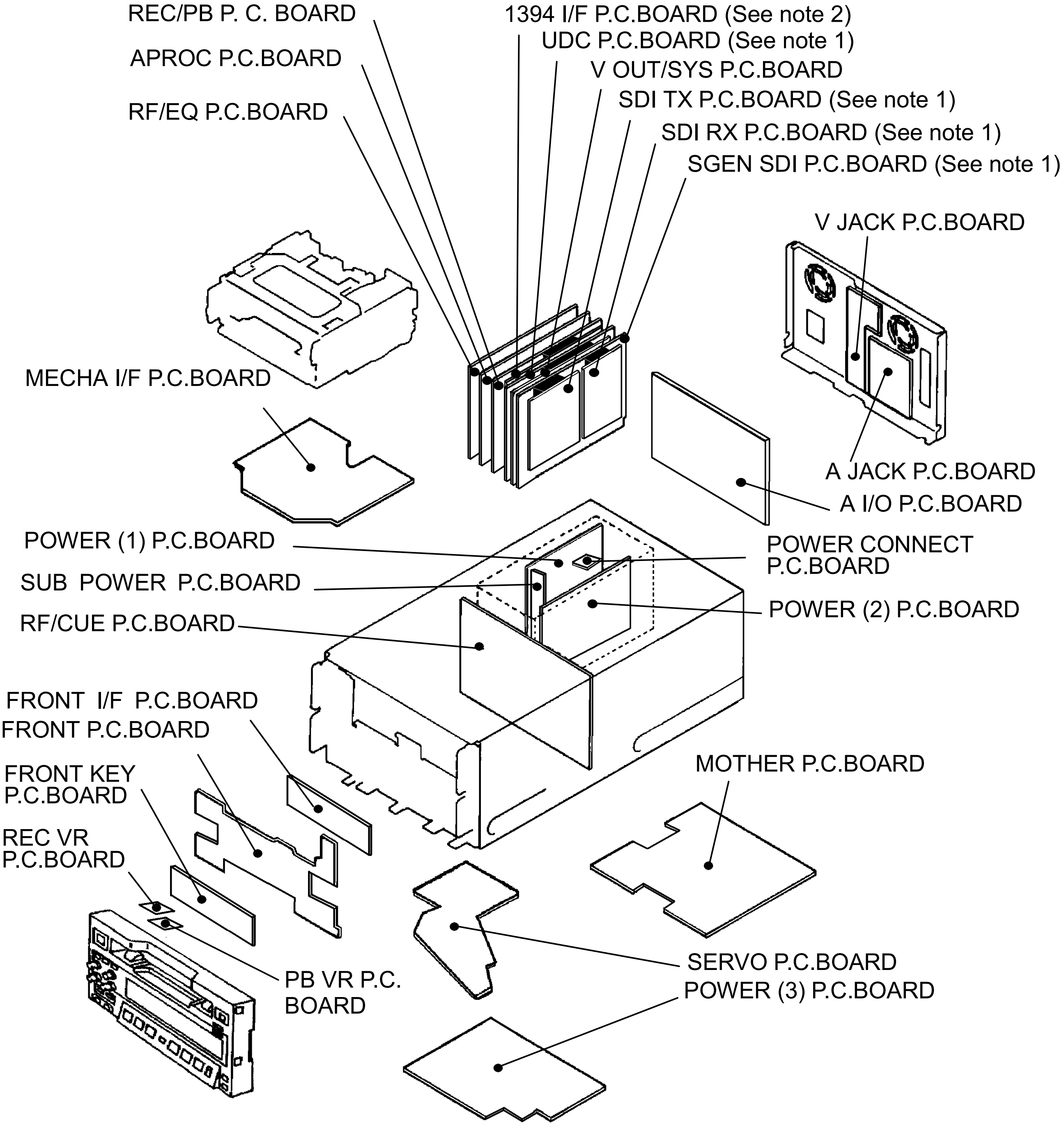
Component Side of VOUT_SYS Board (F4)



DVCPRO HD
POWER
ON
OFF
EJECT
LOCAL
REMOTE
MENU
AUDIO SELECT
INPUT
METER
ANALOG
OFF
ON
REC INH (OPTION)
CH 1
REC
CH 2
CH 3
CH 4
PULL FOR VAR
720 P
AUDIO OUT SEL
AUDIO MON SELECT
REW
STOP
FF
SEARCH
PLAY
PAUS /STILL
REC(OPTION)
TAPE
PAGE
DOWN
MENU
UP
MODE
DATA
SET
EE
RESET
COUNTER
1
2
6
3
4
5
7
8

2. Set the **“LOCAL/MENU/REMOTE” [1] switch on the Front Panel to the “MENU” position.**
3. Turn off the **“REC INHIBIT” [2]** on the Front Panel.
4. Select the item of the “MAIN MENU”.
   - **“DOWN” Button [3]:** Cursor (*) on the monitor moves to up direction.
   - **“UP” Button [4]:** Cursor (*) on the monitor moves to down direction.
   - **“MODE” Button [5]:** Menu changes to the direction of Main menu to sub menu.
   - **“REC INHIBITS” Switch [2] ---- ON:** Menu operation becomes effective.
   - **“REC INHIBITS” Switch [2] ---- OFF:** VTR operation becomes effective.
5. Select the item of the “SUB MENU”.
   - **“DOWN” Button [3]:** Cursor (*) on the monitor moves to up direction.
   - **“UP” Button [4]:** Cursor (*) on the monitor moves to down direction.
   - **“PAGE” [6] + “MODE” [5] Buttons:** Menu changes to the direction of Main menu to sub menu.
   - **“-“ Button [7]:** Data value is decreased.
   - **“+” Button [8]:** Data value is increased.
6. Set the **“LOCAL/MENU/REMOTE” [1]**to the **“LOCAL”** or **“REMOTE”** position and then set the DIP switch **(SW1-2)** on the VOUT_SYS Board to the original position **(OFF).**

12. CIRCUIT BOARD LAYOUT


REC/PB P. C. BOARD
APROC P.C.BOARD
RF/EQ P.C.BOARD
1394 I/F P.C.BOARD (See note 2)
UDC P.C.BOARD (See note 1)
V OUT/SYS P.C.BOARD
SDI TX P.C.BOARD (See note 1)
SDI RX P.C.BOARD (See note 1)
SGEN SDI P.C.BOARD (See note 1)
V JACK P.C.BOARD
MECHA I/F P.C.BOARD
A JACK P.C.BOARD
A I/O P.C.BOARD
POWER (1) P.C.BOARD
SUB POWER P.C.BOARD
RF/CUE P.C.BOARD
POWER CONNECT P.C.BOARD
POWER (2) P.C.BOARD
FRONT I/F P.C.BOARD
FRONT P.C.BOARD
FRONT KEY P.C.BOARD
REC VR P.C.BOARD
MOTHER P.C.BOARD
PB VR P.C. BOARD
SERVO P.C.BOARD
POWER (3) P.C.BOARD

Note:

1. Optional accessory AJ-YA120AG (HD-SDI In/Out and SD-SDI Out Boards) consists of UDC P.C. Board, SGEN SDI / SDI TX / SDI RX P.C. Boards and BNC Connector Panel.
2. Optional accessory AJ-YAD120AG (Digital Video In/Out Board) consists of 1394 IF P.C. Board and Connector Panel.

13. Service Menu Setting

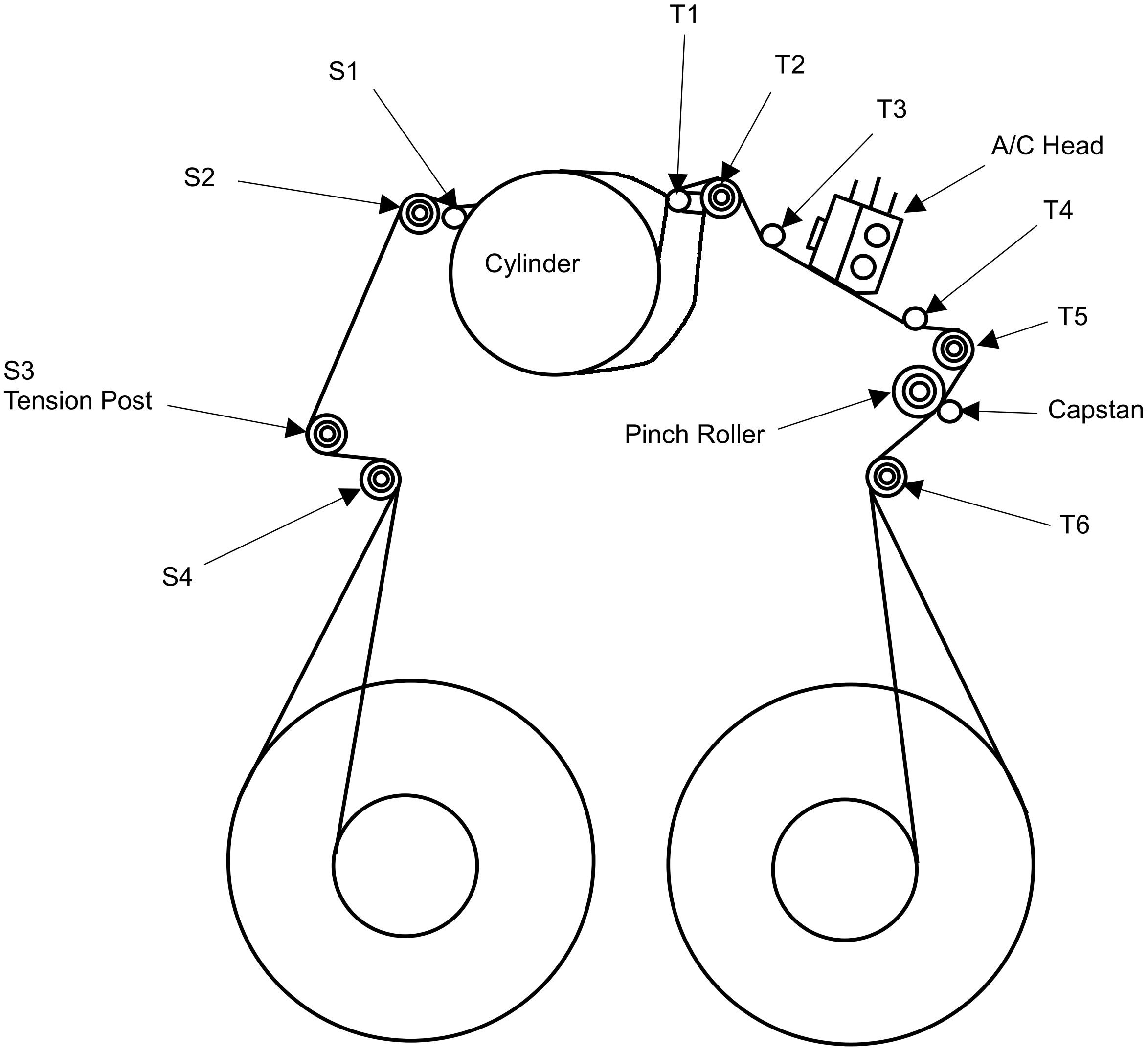
After replacing the “SYSIF Microcomputer with Flash ROM” (IC500) on the VOUT/SYS Board or VOUT/SYS Board it self, the following service menu setting should be performed.

Adjustment Item		**Adjustment Value**		*** Shipping Suffix**				**Remark (Setup Menu)**
No.	**Supper Imposed Display**	**Range**	**After Initializing**	**:T** (Japan)	**:P** (America)	**E:** (Europe)	**:MC** (China)	
F00 : VIDEO ADJUST								
F01	V SETUP	Off (0) On (1)	Off (0)	OFF (0)	ON (1)	OFF (0)	OFF (0)	ON: No.682 [VO SERUP(HD)], No.683 [VO SETUP(SD)] Selection OFF: Prohibition of the above operations
F03	ASPECT	ET V (0) CROP (1)	CROP (1)	CROP (1)	EIT V (0)	EIT V (0)	EIT V (0)	No.620 (DOWNCON MODE), No.621 (UPCON MODE) No.638 (IN U/C MODE) Expression of screen aspect is changed.
G00 : AUDIO ADJUST								
G01	REF LEVEL1	FS-20 (0) FS-18 (1) FS-12 (2)	FS-20 (0)	FS-20 (0)	FS-20 (0)	FS-18 (1)	FS-18 (1)	Audio reference level is selected.
G03	REF LV INT	0dB (0) 4dB (1)	4dB (1)	4dB (1)	0dB (0)	0dB (0)	4dB (1)	No.701-709 (Audio In/Out Levels) are selected.
G21	IN IMP IN	HIGH (0) 600 (1)	HIGH (0)	600 (1)	HIGH (0)	HIGH (0)	HIGH (0)	No.781 (IN IMP SELE) is selected.
G22	AUD OUT SEL	TYPE1 (0) TYPE2 (1)	TYPE (0)	TYPE 1 (0)	TYPE 1 (0)	TYPE 1 (0)	TYPE 1 (0)	TYPE1: No. 770 (MONITOR MIX) Selection TYPE2: Stereo Mode Only.
H00 : OTHER								
H03	FMT DISP	422 (0) 50M (1)	50M (1)	50M (1)	422 (0)	422 (0)	422 (0)	No. 023(FORMAT SEL) Expression of the above operation is changed.
H08	HD1200A	OFF (0) ON (1)	OFF (1)	AJ-HD1200 : OFF (0) AJ-HD1200A : ON (1)				ON : No. 894, No. 895 and No 896 are selected. OFF: Prohibition of the above Operations.
H21	UNDERCUT ADJ	00000 | 0020E | 00FFF	000 | 20E | FFF	Perform “2-1. Battery Voltage Detect Adj.” then the adjustment value is set.				
	INPUT VL		0.0V | 99.9V					

* The area name of each shipping suffix shows only representation area

1. Mechanical Adjustment Procedures

Name of Components on Tape Transportation


T1
S1
T2
T3
A/C Head
S2
T4
Cylinder
T5
S3
Tension Post
Capstan
Pinch Roller
T6
S4

1-1. Post Driver Specification

The Post Driver (VFK1149) is not fitted with S2, S3, S4, T2, T5 and T6 posts. File the tip of Post Driver as shown in the figure, or obtain the new type of the Post Driver (VFK1149B).

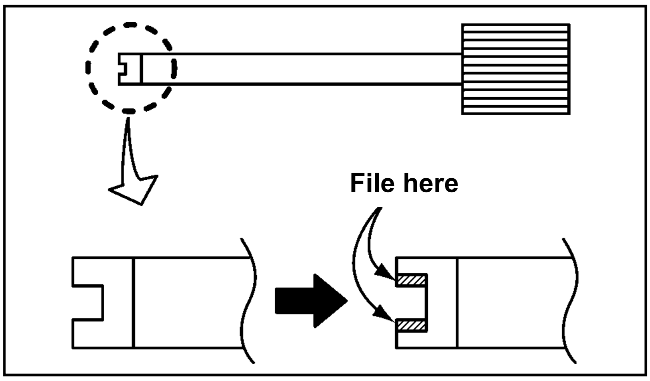


Figure 1-1-1

1-2. Post Height Pre-Adjustment

MODE	EJECT (POWER OFF)
TOOL	VFK1586 (Mech. Neutral Plate) VFK1154 (Post Height Fixture) VFK1149B (post Driver)

1. Confirm that the Reel Table is positioned for M-Cassette and turn the power OFF.
   Remove the Front Loading Unit and install the Mech. Neutral Plate (VFK1586).
   If the Reel Table position is not for M-Cassette, insert an M-Cassette and eject it so that the position is for M-Cassette.
2. Put the Post Height Fixture (VFK1154) on the Mech. Neutral Plate, and adjust the Upper Limit and Lower Limit as shown in figure 1-2-1.
3. Adjust the S3 and T5 Post Height to the lower limit under the loading condition.
4. Adjust the S4 and T6 Post Height to the lower limit, and turn them 1/4 rotation clockwise in order to realize 'Lower limit – 0.05mm'. (1 turn = 0.2mm)

Post Name	Limit
S3 Post	Lower Limit
S4 Post	Lower Limit - 0.05mm
T5 Post	Lower Limit
T6 Post	Lower Limit -0.05mm

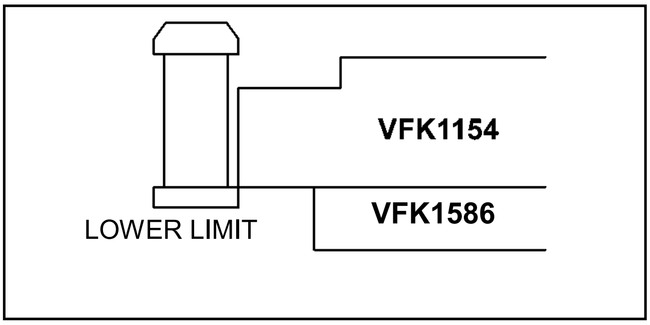

VFK1154
LOWER LIMIT
VFK1586

Figure 1-2-1

Note:
See page MECH-1 for post locations.

1-3. Photo Sensor Voltage Adj.

TP	T-side: TP2 (A_PROC Board: Slot 2) S-side: TP1 (A_PROC Board: Slot 2)
ADJ.	T- side: VR400 (Mech. I/F Board) S- side: VR401 (Mech. I/F Board)
MODE	STOP
TAPE	VFK1423 (Tape BEG./END Detect Adjustment Cassette)
SPEC.	2.2V ± 0.6V

1. Connect the oscilloscope to TP2 or TP1.on the A_PROC Board and then insert the VFK1423 (Tape Beg. /End Detect Adjustment Cassette).
2. Adjust VR400 on the Mech I/F Board so that the voltage at TP2 (T-side) is in the specification and VR401 on the Mech I/F Board so that the voltage is in the specification.

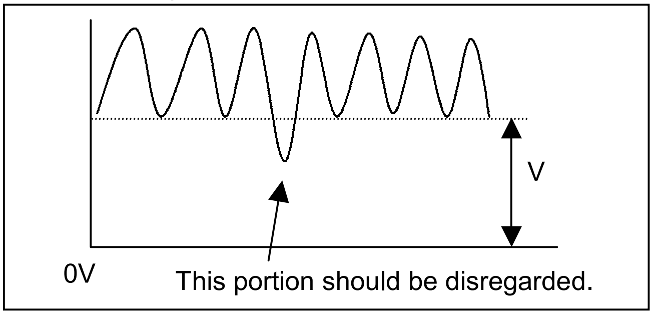


Figure 1-3-1

1-4. Tension Adj. Flow Chart

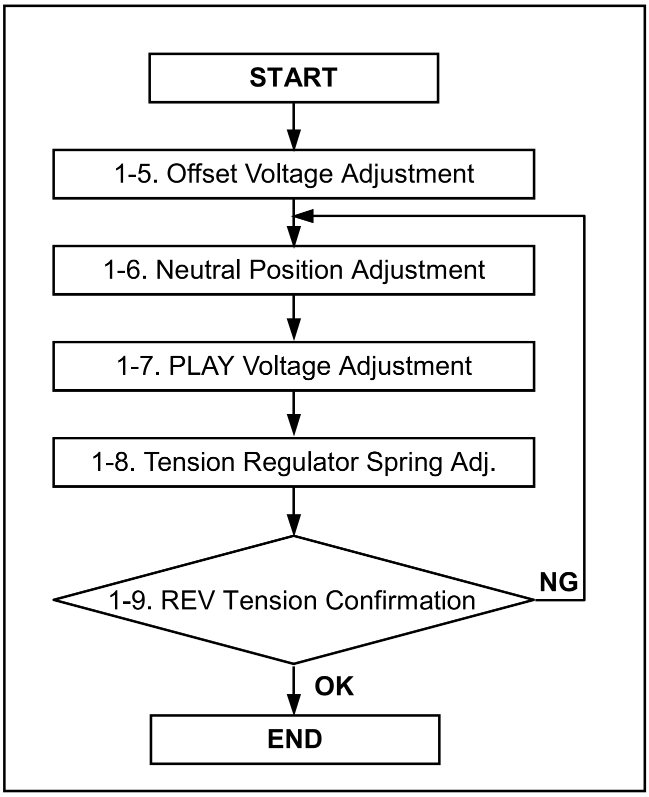

START
1-5. Offset Voltage Adjustment
1-6. Neutral Position Adjustment
1-7. PLAY Voltage Adjustment
1-8. Tension Regulator Spring Adj.
1-9. REV Tension Confirmation
NG
OK
END

Figure 1-4-1

1-5. Tension Arm Offset Voltage Adjustment

TP	TP3: A_PROC Board (Slot 2)
ADJ.	VR1: Mech. I/F Board
MODE	EJECT (POWER OFF)
M. EQ	Digital Volt Meter
SPEC.	2.5 V ± 0.05 V

1. Place the unit in the EJECT mode and measure the voltage at TP3.
2. If it is out of specification, adjust the VR1.

1-6. Tension Arm Neutral Position Adjustment

TP	TP3: A_PROC Board (Slot 2)
ADJ.	Tension Regulator Board Base position (Tab D)
MODE	STOP
TOOL	VFK1587 (NEUTRAL Position Fixture) Digital Volt Meter
SPEC.	2.5 V ± 0.1 V

1. Disconnect the flat cable between the Front Loading unit and P3 connector in figure 1-6-1.
2. Unscrew the 6 screws and remove the Top Plate.
3. Set the VFK1587 (NEUTRAL Position Fixture) as shown in figure 1-6-2.
4. Open the “SERVO ADJUST” menu in the Service Menu and select the item “A07: TENSION”.
   Place the unit in the loading completion mode without cassette tape. (Refer the following note 1)
5. Adjust the base position of Tension Regulator Board so that the voltage at TP3 is within the specification.
   To adjust the base position of Tension Regulator Board, loosen the screw (A) and move the lever (D) by using a non-magnetic screwdriver. To fix the base, tighten the screw (A).

Note:

Loading Operation without Cassette Tape

1) Turn on the Dip Switch (SW1, pin 2) on the VOUT/SYS Board.
2) Set the LOCAL/MENU/REMOTE switch on the Front Panel to the MENU position so that the VTR is Service Menu Mode.
3) Turn off the REC INHIBIT switch on the front panel.
4) Select 00: SERVO ADJUST by using “+” or “-“ button and then press the MODE button...
5) Select A07: TENSION by using “+” or “-“button and then press the MODE button so that the VTR becomes the loading completion mode without cassette tape.

Change to Normal Operation

1) Press the MODE switch while pressing the PAGE button so that the SERVICE MENU changes to the TOP MENU.
2) Set the LOCAL/MENU/REMOTE to LOCAL or REMOTE position so that the VTR is placed in the normal mode.
3) Turn the DIP switch (SW1, pin 2) off.

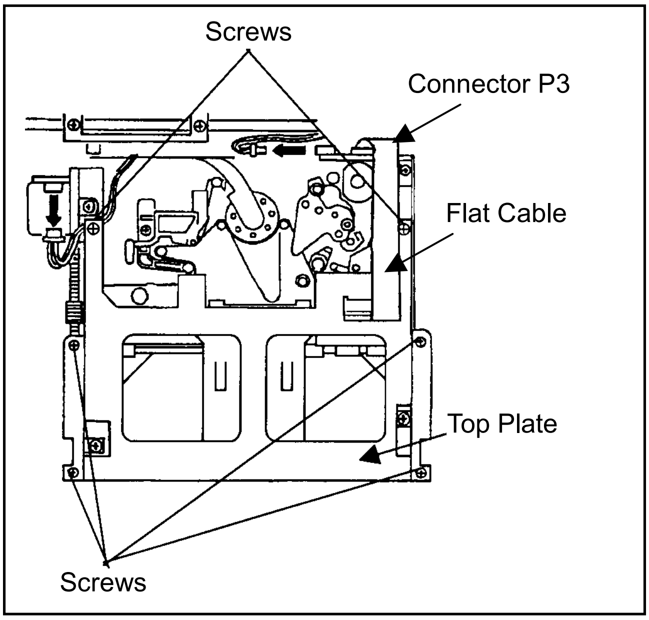


Figure 1-6-1

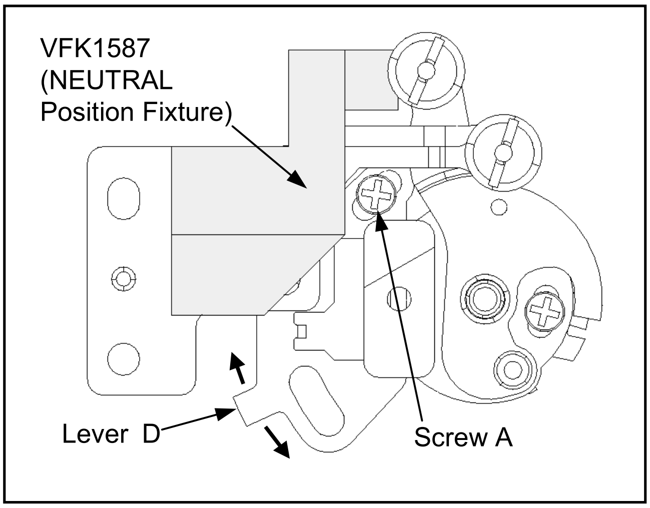


Figure 1-6-2

1-7. PLAY Voltage Adjustment

TP	TP3: A_PROC Board (Slot 2)
ADJ.	VR2: Mech. I/F Board
MODE	STOP
TOOL	VFK1588 (PLAY Position Fixture) Digital Volt Meter
SPEC.	3.8 V ± 0.05 V

1. Set the VFK1588 (PLAY Position Fixture) as shown in the figure 1-7-1.
2. Open the “SERVO ADJUST” menu in the Service Menu and select the item “A07: TENSION”.
   Place the unit in the loading completion mode without cassette tape. (Refer the note in Paragraph 1-6.)
3. Adjust VR2 so that the voltage at TP3 is in the specification.

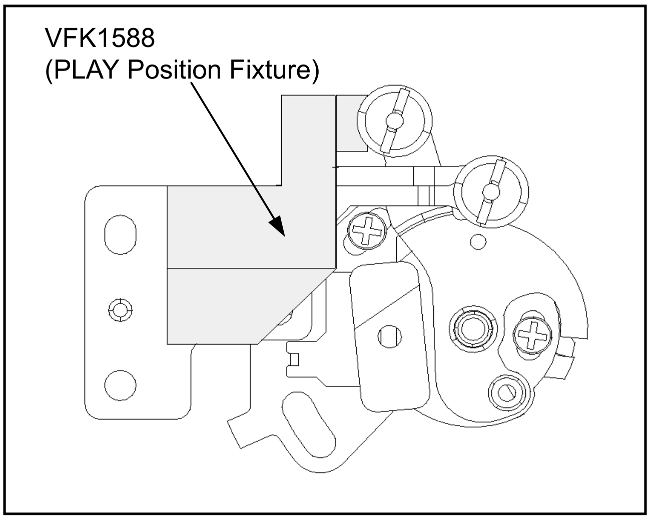


Figure 1-7-1

1-8. Tension Regulator Spring Adjustment

TP	TP3: A_PROC Board (Slot 2)
ADJ.	Tension Spring Adjust Screw
MODE	STOP
TOOL	VFK1188A (Dial Tension Gauge) Digital Volt Meter
SPEC.	100mN ± 10mN (1gf ± 1gf)

1. Open the “SERVO ADJUST” menu in the Service Menu and select the item “A07: TENSION”.
   Place the unit in the loading completion mode without cassette tape. (Refer the note in Paragraph 1-6.)
2. Push the tension post in the direction R by the tension gauge under the loading condition until the output voltage reaches 3.8V (Play position).
3. Adjust the Tension Regulator Spring Adjust Screw while keeping the voltage 3.8V so that the measured value by the Torque gauge is within the specification. (Refer to the figure below.)

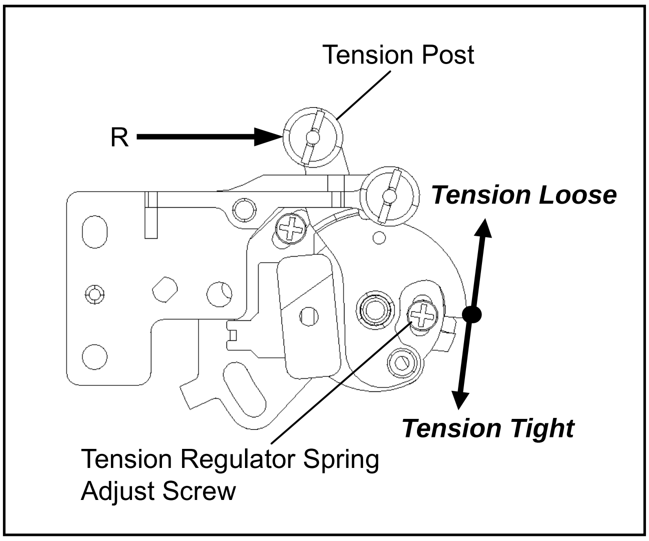


Figure 1-8-1

1-9. REV Tension Confirmation

TP	TP3: A_PROC Board (Slot 2)
MODE	STOP
TOOL	VFK1188A (Dial Tension Gauge) Digital Volt Meter
SPEC.	180mN ± 20mN (18gf ± 1gf)

1. Open the "SERVO ADJUST" menu in the Service Menu and select the item "A07: TENSION". Place the unit in the loading completion mode without cassette tape. (Refer the note in Paragraph 1-6.)
2. Push the tension post to the direction R by the tension gauge under the loading condition until the output voltage reaches 1.1V (REV position).
3. Confirm that the measured value by the Torque gauge is within the specification while keeping the voltage 1.1V.
4. If it is out of specification, readjust the "1-8. Tension Regulator Spring Adjustment".
5. After finishing the A/C Head adjustment, one drop of screw lock tight glue should be applied to the portions (A) and (B) as shown in figure 1-9-1.

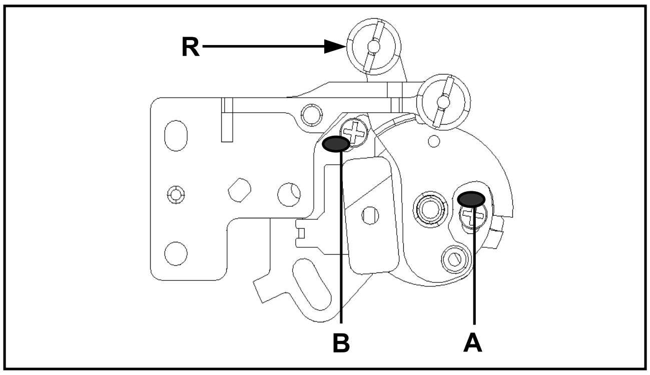


Figure 1-9-1

1-10. Tension Confirmation

MODE	PLAY, REV x-1
TAPE	66min. M-Cassette (Beginning)
TOOL	VFK1145A (Tension Meter)
SPEC.	PLAY: 59mN ± 10mN (6gf ± 1gf)

* Please calibrate Tension Meter before tension measurement by the following procedure.

<Calibration of the Tension Meter>

1. Attach the 7 grams calibration weight to DVCPRO tape. (The plumb is included in VFK1145.)
2. Set the above tape to the Tension Meter as shown in figure 1-10-1.
3. Pull up the tape at 33mm/sec speed to the direction of tape running, and calibrate the Meter so that the meter shows 68.6cN (7g).

* To calibrate Tension Meter the tape must be pulled up in the direction of tape path of VTR as shown in figure 1-10-1.

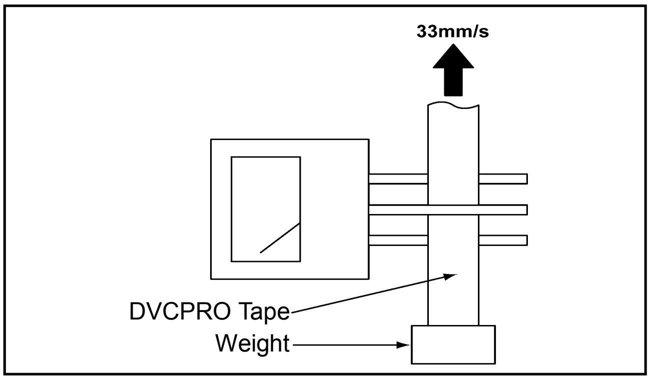


Figure 1-10-1

<Confirmation>

1. Play back the beginning of tape.
2. Insert the tension meter between S2 post and S3 post as shown in figure 1-10-2.
3. Confirm that the tension is within the specification.
4. If it is out of specification, follow the flowchart of the Tension Arm Adjustment.

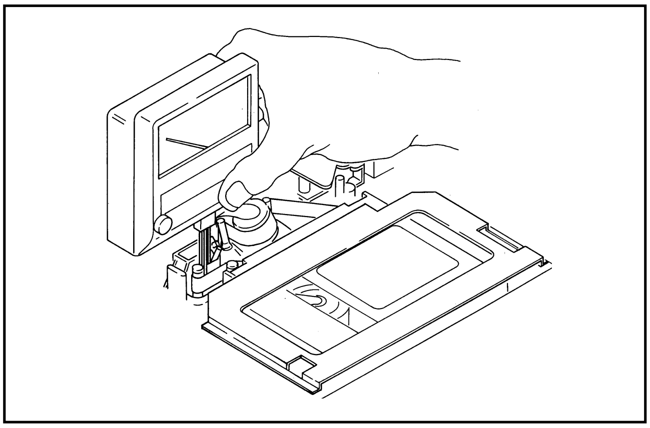
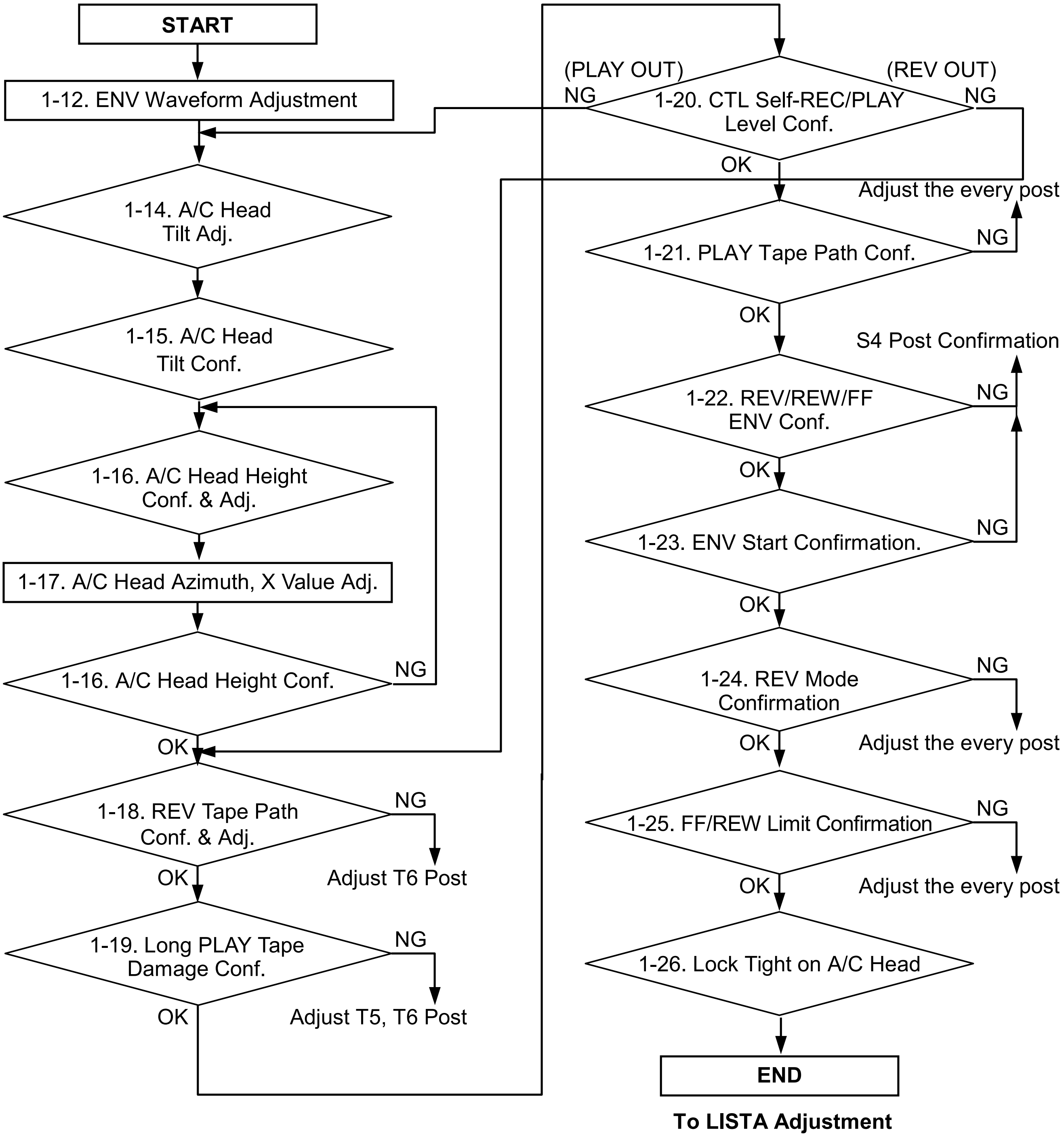


Figure 1-10-2

NOTE:
Do not use any alignment tape for this adjustment. Pay attention not to damage the tape.

1-11. Tape Path Adj. Procedure


START
1-12. ENV Waveform Adjustment
1-14. A/C Head Tilt Adj.
1-15. A/C Head Tilt Conf.
1-16. A/C Head Height Conf. & Adj.
1-17. A/C Head Azimuth, X Value Adj.
1-16. A/C Head Height Conf.
NG
OK
1-18. REV Tape Path Conf. & Adj.
NG
Adjust T6 Post
OK
1-19. Long PLAY Tape Damage Conf.
NG
Adjust T5, T6 Post
OK
(PLAY OUT)
NG
1-20. CTL Self-REC/PLAY Level Conf.
(REV OUT)
NG
OK
Adjust the every post
1-21. PLAY Tape Path Conf.
NG
OK
S4 Post Confirmation
1-22. REV/REW/FF ENV Conf.
NG
OK
1-23. ENV Start Confirmation.
NG
OK
1-24. REV Mode Confirmation
NG
Adjust the every post
OK
1-25. FF/REW Limit Confirmation
NG
Adjust the every post
OK
1-26. Lock Tight on A/C Head
END

To LISTA Adjustment

1-12. ENV Waveform Adjustment

TP	TP105: R/P L ENV (RF/EQ Board: Slot 1) TP5: R/P L HSW (RF/EQ Board: Slot 1)
ADJ.	S2, T2 Post Height
MODE	PLAY (ATF)
TAPE	VFM3580KM or VFM3580KL
M. EQ	Oscilloscope
TOOL	VFK1149B (Post Driver)
SPEC.	V1/Vmax, V2/Vmax, V3/Vmax ≥ 0.8

1. Play back the alignment tape.
2. Adjust the T2 post and then the S2 post height so that the ENV output is within the specification.
   Upon adjusting the S2 and T2 posts, first make a post higher until the output becomes small, and then lower until the output becomes flat.
3. After the adjustment, unload and load a tape and confirm that the envelope is still in the specification as shown in figure 1-12-1.

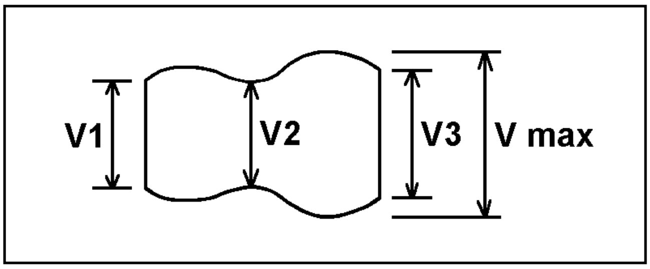


Figure 1-12-1

1-13. A/C Head Adjustment Method (Summery)

Adjustment Item	Screw	Adjustment Method	Torque
Tilt Adj.	A	1) Adjust screw (A) after loosen screw (G). Counter clockwise (Tighten) --- Decrease Cue Level. Clockwise (Loosen)--- Increase Cue Level 2) Tighten screw (G) after finishing adjusting the screw (A). (Refer to following item "Azimuth Fix".)	(Adjustment)
Azimuth Adj.	F	1) Phase is adjusted by screw (F) after loosen screw (G). 2) Tighten screw (G) after finishing adjusting the screw (F). (Refer to following item "Azimuth Fix".)	(Adjustment)
Azimuth Fix	G	Screw (G) should always be tightened during adjustment except Tilt and Azimuth adjustments.	10cN·m (1.0Kgf·cm)
Height Adj.	B	Counter clockwise (Tighten): In case CTL level increases by pressing down the A/C Head. Clockwise (Loosen): In case CTL level increases by lifting up the A/C Head. **NOTE 1: Please refer to figure 1-13-2 for the portion to lift up and press down the A/C Head.** **NOTE 2: To lift up and press down A/C Head, do it gently by finger.**	(Adjustment)
Height Fix	H	After the height adjustment, tighten screw (H) to fix height of A/C Head.	25cN·m (2.5Kgf·cm)
X-Value Adj.	C, D	1) Adjust X-Value at Hole (E) by VFK0357, then tighten the screw (C) and (D) to fix A/C Head horizontal position. 2) Tap the portion shown in the fig. 1-13-3 to confirm the phase shift.	25cN·m (2.5Kg·cm)

Screw	Tool for Adjustment
B	VFK1150A (5.5mm Nut Driver)
A, F	VFK1178A (0.89mm Hex Driver)
C, D, G, H	VFK1148A (1.5mm Hex Driver)
Hole E	VFK0357 (Eccentric Driver)

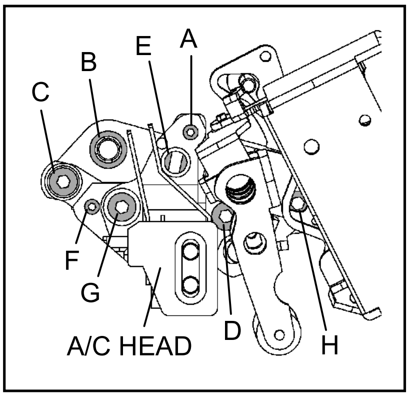


Figure 1-13-1
A/C Head Adjust Screws

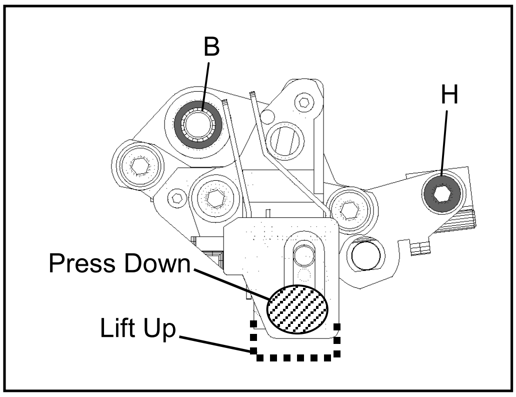


Figure 1-13-2
A/C Head Height Confirmation

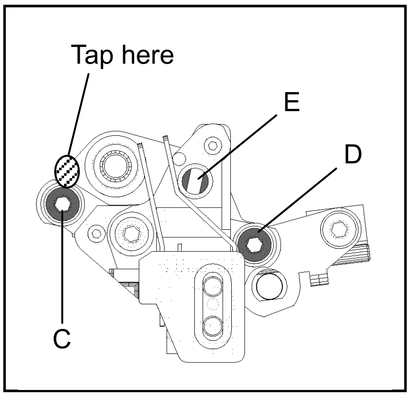


Figure 1-13-3
A/C Head X-Value Adjustment

1-14. A/C Head Tilt Adjustment

TP	A/C Head Screw (A), (G)
TOOL	VFK1586 (Mech. Neutral plate) VFK1589 (A/C Head Tilt Adjust Tool) VFK1154 (Post Height Adjust Tool) VFK1178A (0.89mm Hex Driver) VFK1148A (1.5mm Hex Driver)
SPEC.	There is no gap between A/C Head and Post Height Adjust Tool. (0° ± 10°)

1. Place the mechanical chassis in the loading completion mode.
2. Mount the A/C Head Tilt Adjust Tool on the Mech. Neutral Plate as shown in figure 1-14-2.
3. Put the Mech. Neutral Plate on the Reel Table.
4. Put the Post Height Adjust Tool along the slope portion of A/C Head Tilt Adjust Tool to A/C Head. Confirm that the Post Height Adjust Tool is fitted to the surface of the A/C Head.

< Note >:

Loosen the screw (G) and adjust the screw (A). Check the gap between the A/C head and post height adjustment tool after the tightening the screw (G) at specified torque.

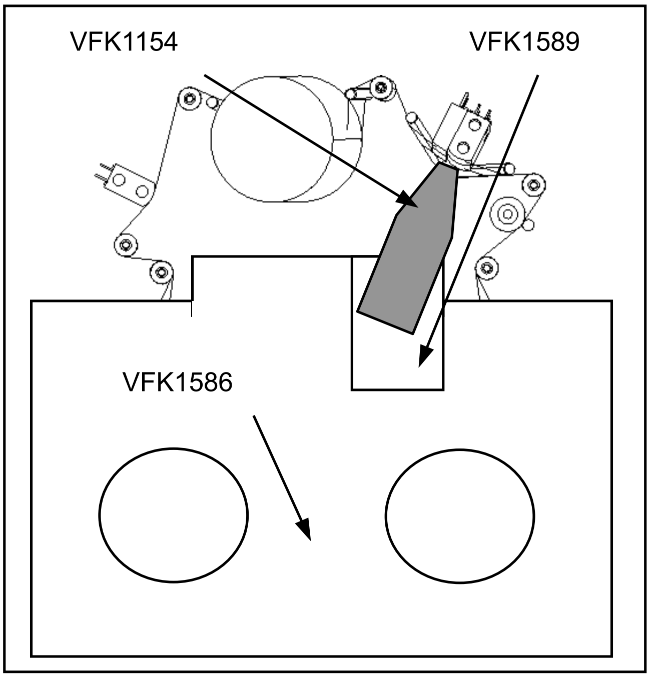

VFK1154
VFK1589
VFK1586

Figure 1-14-1

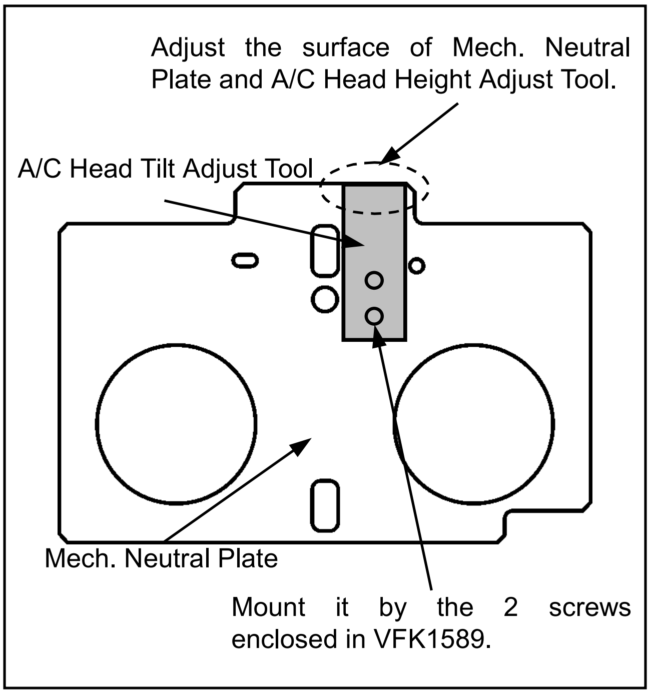

Adjust the surface of Mech. Neutral Plate and A/C Head Height Adjust Tool.
A/C Head Tilt Adjust Tool
Mech. Neutral Plate
Mount it by the 2 screws enclosed in VFK1589.

Figure 1-14-2

1-15. A/C Head Tilt Confirmation

TP	TP102: CUE AUDIO (RF_CUE Board)
MODE	PLAY
TAPE	VFM3580KM or VFM2580KL
M. EQ	Oscilloscope
SPEC.	A/Amax ≥ 0.8

1. Confirm the screws (G) and (H) are tightened on A/C head.
2. Play back the 6MHz CUE AUDIO portion of the alignment tape.
3. Press the Tension Arm to the direction P as shown in the figure 1-15-2. Confirm that the fluctuation of output level is within the specification as shown in figure 1-15-1.

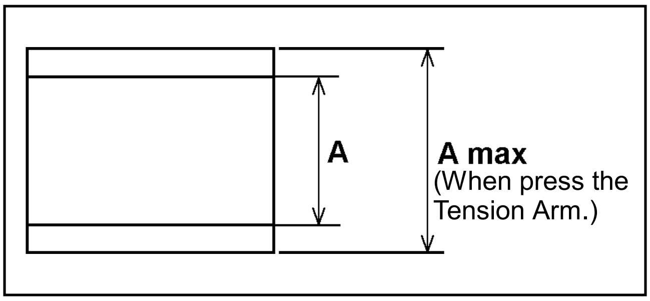


Figure 1-15-1

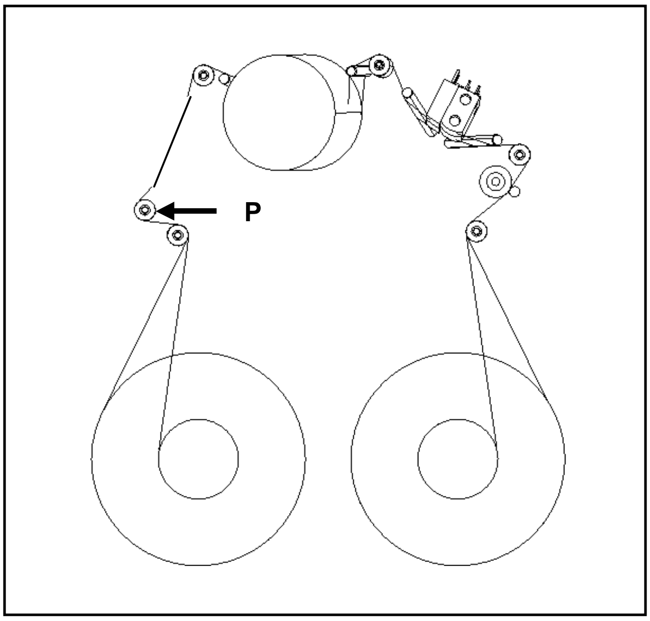


Figure 1-15-2

1-16. A/C Head Height Confirmation & Adjustment

TP	TP102: CUE AUDIO (RF_CUE Board) TP2: CTL (A_PROC Board: Slot 2)
ADJ.	Screw B, H (A/C Head)
MODE	25M Mode PLAY
TAPE	VFM2580KM or VFM2580KL
TOOL	VFK1150A (5.5mm Nut Driver), VFK1148A (1.5mm Hex Driver)
SPEC.	A/Amax ≥ 0.95, C1, C2 ≥ 2.0 V

1. Press down and lift up the A/C Head lightly, and confirm that the CTL and CUE output level is within the specification. (Please refer to the figure 1-13-2 where to lift up and press down.)
2. If it is out of specification, adjust the height to maximize the CUE output level by loosing the screw (H) and turning the screw (B).
3. After adjustment, tighten the screw (H) and confirm the condition.
4. A/C Head Height Adjustment should be done alternately with Azimuth/X-Value Adjustment.

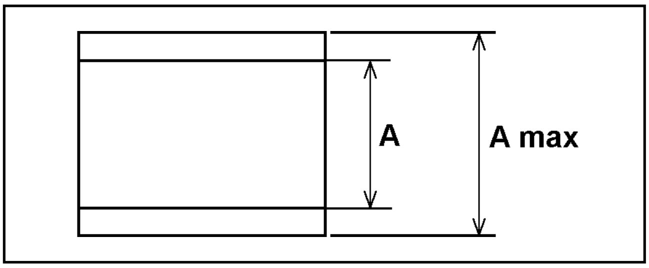


Figure 1-16-1

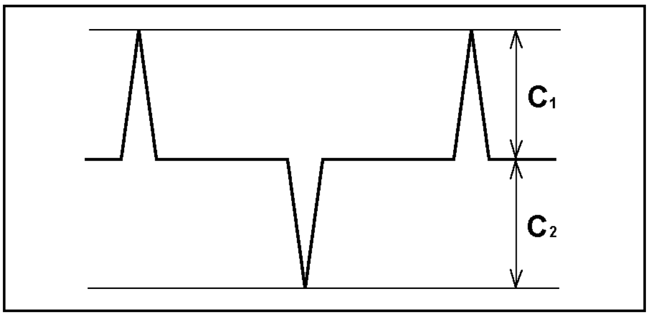


Figure 1-16-2

1-17. A/C Head Azimuth and X-Value Adjustment

SPEC.	1. HDLP Mode: 250us ≤ t1, t2 ≤ +250us 50M Mode: 125us ≤ t1, t2 ≤ +125us 2. X-Value: 27 or Less (Select "X-Value HDLP" on the Service Mnuand confirm the X-Value.)	**TP**	TP105: R/P L ENV (RF EQ Board: Slot 1) TP5: R/P L HSW (RF EQ Board: Slot 1) TP102: CUE (RF CUE Board: Slot 2) TP4: CTL (A PROC Board: Slot 2)
		M. EQ	Oscilloscope
		TOOL	VFK0357 (Eccentric Driver) VFK1148A (Hex Driver) VFK1209A (Torque Driver) VFK0912 (Post Axis Driver)
ADJ.	A/C Head		
MODE	See below		
TAPE	VFM3582KM or VFM3582KL		

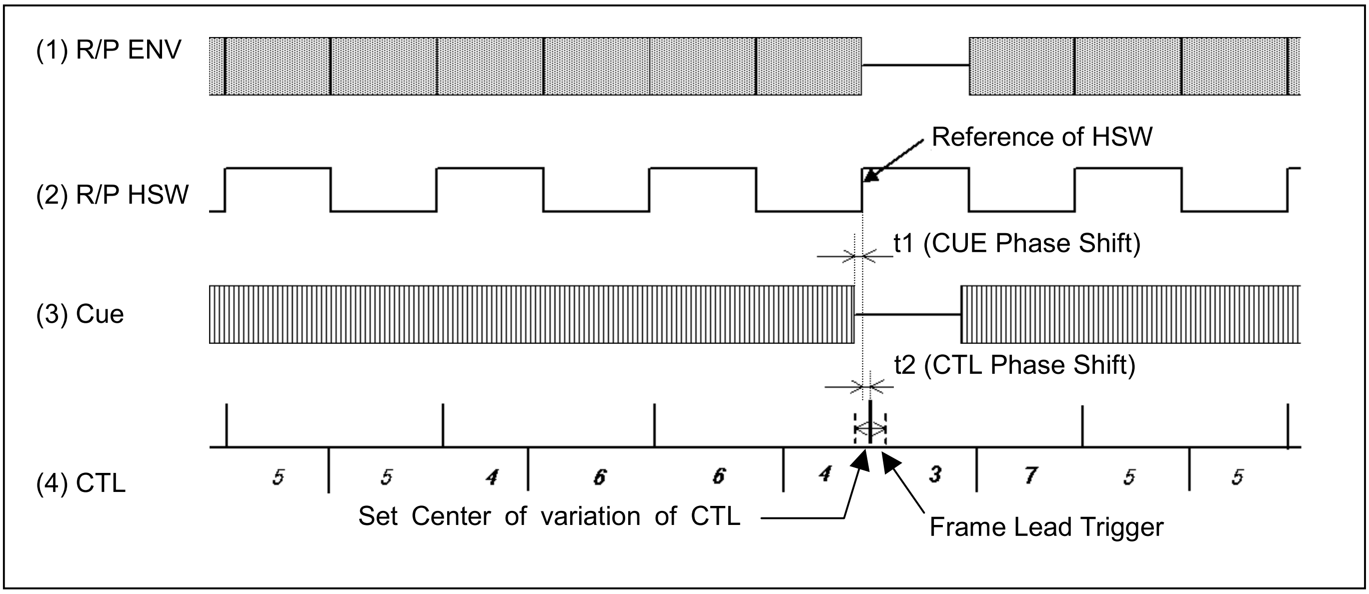


Figure 1-17-1

1. Play back the X-Value Alignment Tape in the 50M mode.
2. Adjust the Azimuth so that the reference CTL matches with non-recorded portion of the CUE in the phase (t2). (Refer to the Paragraph “1-13. A/C Head Adjustment Procedure”)
3. Confirm the non-recorded portion of R/P ENV, and select proper HSW.
4. Adjust X-Value so that the reference of HSW matches with the CTL frame lead trigger in the phase (t1). To adjust X-value, loosen the screws (C) and (D), and adjust the hole (E) by using the Eccentric Driver. At this time adjust the phase simultaneously with the Azimuth so that the CTL and CUE phase is kept.
5. After tightening the every screw on the A/C Head, tap the top plate (portion as shown in figure 1-13-3) of A/C Head, and then confirm the phase does not shift.
6. Select the SERVO ADJUST menu on the Service Menu, and select the item “A13: X-VALUE HDLP”.
7. Play back the Alignment Tape, and press the “F” button and confirm that the “PLAY ALIGNMENT TAPE OK?” message appears.
8. Press the “F” button for more than 3 seconds so that the measuring value is displayed on the screen.

1-18. REV Tape Path Confirmation and Adjustment (T6 Post Height)

ADJ.	T6 Post Height
TP	TP4: A PROC Board (Slot 2)
MODE	25M PLAY (+1) 25M REV (-1):
TAPE	VFM3582KM or VFM3582KL
TOOL	VFK1148A (Post Driver)
SPEC.	C1 ≥ Cp1 x 0.75 C2 ≥ Cp2 x 0.75 Lower limit at T5 post in REV –1.0 mode. Tape has no curl and bent at T5 and T6 Post.

<How to place the VTR in the REV -X1>

1) Open the service menu.
2) Press the both "PLAY" and "REW" button together in the VTR operation mode.

1. Perform 1x and –1x playback alternately. Confirm the CTL output level is within the specification in the figure 1-18-1. If it is out of specification, adjust the T6 Post Height.
2. When adjusting a post, try it by 45 degrees step.
3. Place the unit in the –x1 playback again, and confirm that the CTL output level (C1/ C2) is more than 75% of the normal playback (CP1/ CP2).
   Also confirm that the limit condition of the P5 and P6 posts is as shown in figure 1-18-1.
4. If it is out of specification, adjust T6 post height. "1-2. Post Height Pre-Adjustment".

< Post Limit >

Post	A	B	C	D	E	F
T5	NG	NG	OK	NG	NG	NG
T6	OK	OK	OK	NG	NG	NG

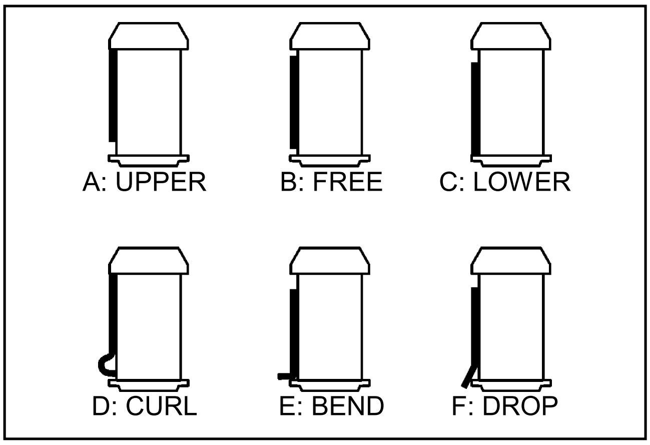


Figure 1-18-1

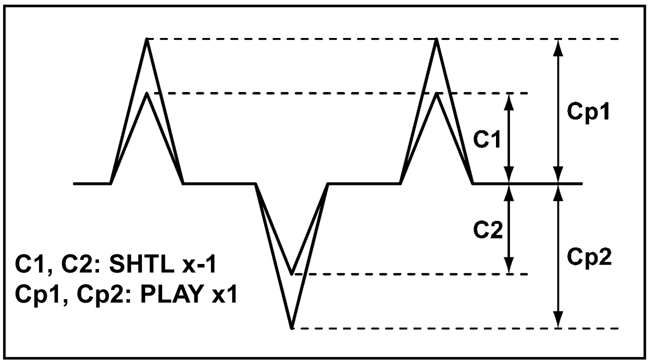


Figure 1-18-2

1-19. Long PLAY Tape Damage Confirmation CUE/REV Damage Confirmation

MODE	Change CUE and REV x-1 mode alternately
TAPE	Long PLAY Tape L-Cassette (Beginning) (AJ-5P93LP: Recorded Tape)
SPEC.	No damage on the tape at T5 and T6 posts

1. Prepare a 50M recorded tape.
   Confirm that there is no tape damage in intermittent mode and while switching CUE and REV.
2. If it is out of specification, adjust T5 and T6 posts height by following the Paragraph "1-2. Post Height Pre-Adjustment".

Note :
See page MECH-1 for post location.

1-20. CTL Self-REC/PLAY Output Level Confirmation

TP	TP4: A PROC Board (Slot 2)
MODE	PLAY REV x 1 REV x 0.2
TAPE	Blank M Cassette Tape
M. EQ	Oscilloscope
SPEC.	See below

(Specification)

CTL Output Level: C1, C2		
PLAY	REV x -1	REV x -0.2
C1,C2 ≥ 1.8V	C1,C2 ≥ 1.4V	C1,C2 ≥ 1.2V

1. Confirm all screws of the A/C Head are fixed.
2. Record and play back any signal. Confirm that the CTL output level on each mode is within the specification.
3. In case PLAY mode is out of specification, confirm the A/C Head Height again. (Refer to Paragraph “1-16. A/C Head Height Confirmation”.)
4. In case REV x-1 mode is out of specification, confirm the T6 Post Height again. (Refer to Paragraph “1-18. REV Tape Path Confirmation and Adjustment”.)

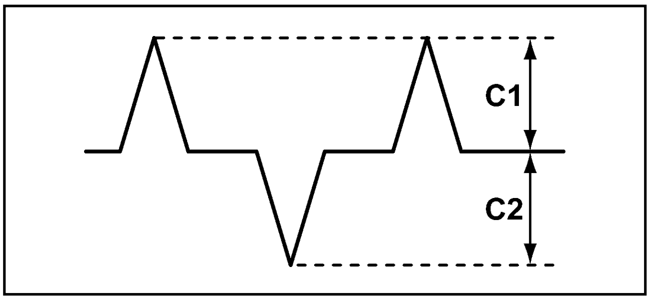


Figure 1-20-1

1-21. PLAY Tape Path Limit Confirmation

MODE	PLAY
TAPE	VFM3580KM or VFM3580KL
SPEC.	See below

1. Play Back the tape and confirm the post limits by eyes.

Post Name	**Tape Limit (see figure)**					
	A	**B**	**C**	**D**	**E**	**F**
S4 Post	NG	OK	OK	NG	NG	NG
S3 Post	NG	NG	OK	NG	NG	NG
S2 Post	OK	NG	NG	NG	NG	NG
T2 Post	OK	NG	NG	NG	NG	NG
T5 Post	NG	NG	OK	NG	NG	NG
T6 Post	OK	OK	OK	NG	NG	NG

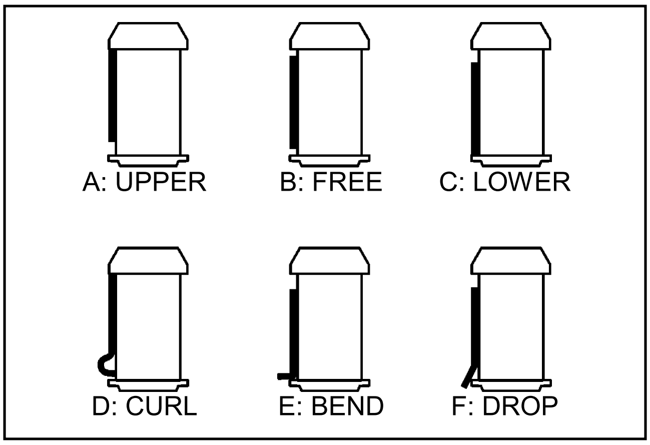


Figure 1-21-1

2. If any is out of specification, confirm an appropriate adjustment point.

Post Name	**Adjust**	**Procedure**
S4 Post	S3, S4 Post	Post Height Pre-Adjustment
S3 Post		
S2 Post	S2, T2 Post	Envelope Waveform Adjustment
T2 Post		
T5 Post	T5 Post	Post Height Pre-Adjustment
T6 Post	T6 Post	

Note :
See page MECH-1 for post location.

1-22. Envelope Confirmation on REV/REW/FF mode

TP	TP105: A PROC Board (Slot 2) TP5: A PROC Board (Slot 2)
MODE	REV, REW, FF
TAPE	VFM3580KM or VFM3580KL
M. EQ	Oscilloscope
SPEC.	Waveform should be Diamond Style. All the peak level should be more than 90% of maximum level. V/V max ≥ 0.9

1. Confirm that the envelope in REV, REW and FF mode is as follows:
   - Waveform must be diamond shape.
   - All peak levels must be more than 90% of maximum level.
     V/V max ≥ 0.9
2. If it is out of specification, adjust S3 post height. (Refer to the paragraph “1-2. Post Height Pre-Adjustment”.)

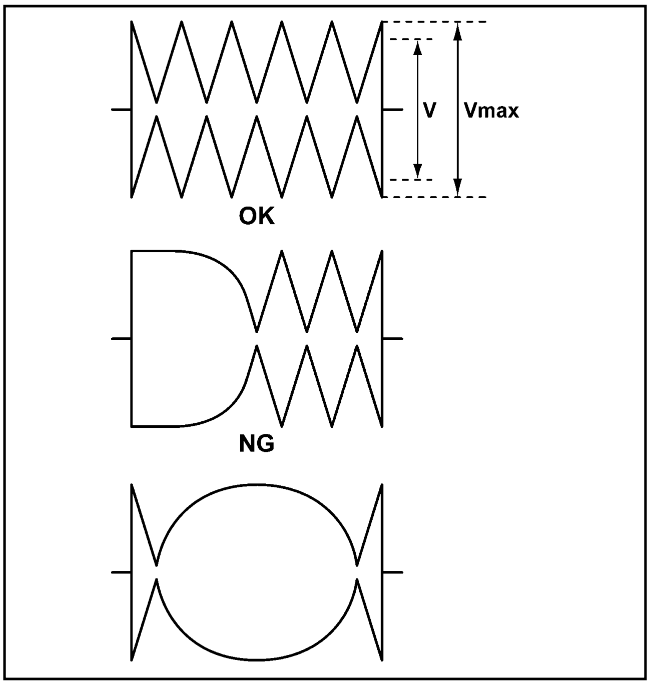


Figure 1-22-1

1-23. Envelope Start Confirmation

TP	TP105: A PROC Board (Slot 2) TP5: A PROC Board (Slot 2)
MODE	REW/REV → PLAY, FF → PLAY Loading completion → PLAY,
TAPE	Beg. of L-Cassette (123 min., Recorded)
M. EQ	Oscilloscope
SPEC.	Envelope comes immediately

This adjustment must be done after “Envelope Waveform Adjustment”.

1. Confirm that the envelope comes immediately, when the mode switches from REW to PLAY, REV to PLAY, FF to PLAY and Lording to PLAY and STBY OFF to PLAY mode.
2. If it is out of specification, adjust the post height of the S3 post. (Refer to the paragraph “1-2. Post Height Pre-Adjustment”.)

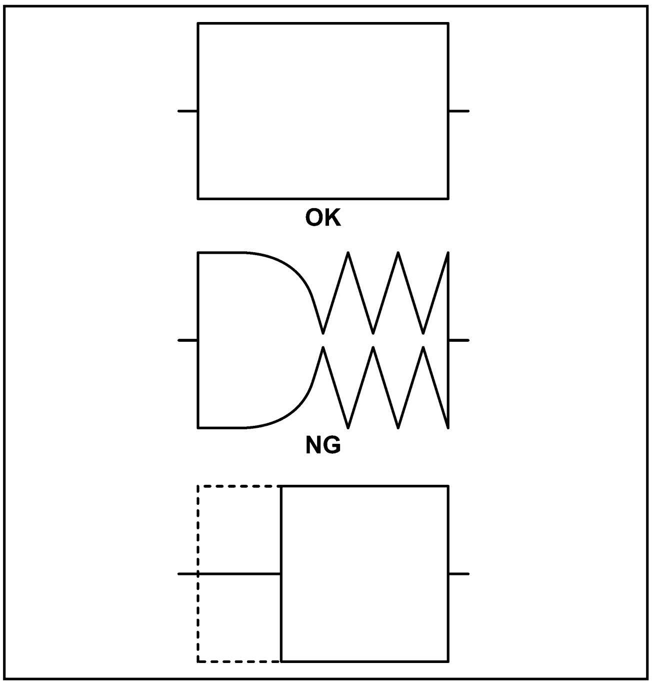


Figure 1-23-1

1-24. REV mode Confirmation

MODE	REW
TAPE	VFM3580KM or VFM3580KL
SPEC.	See below

1. Place the unit in REV mode and confirm each post limit.
2. This confirmation must be done after all tape path adjustments.

Post Name	Tape Limit (see figure)					
	A	B	C	D	E	F
S4 Post	OK	OK	OK	NG	NG	NG
S3 Post (Tension Post)	NG	OK	OK	NG	NG	NG
S2 Post	OK	NG	NG	NG	NG	NG
T2 Post	OK	OK	OK	NG	NG	NG
T5 Post	NG	NG	OK	NG	NG	NG
T6 Post	OK	OK	OK	NG	NG	NG

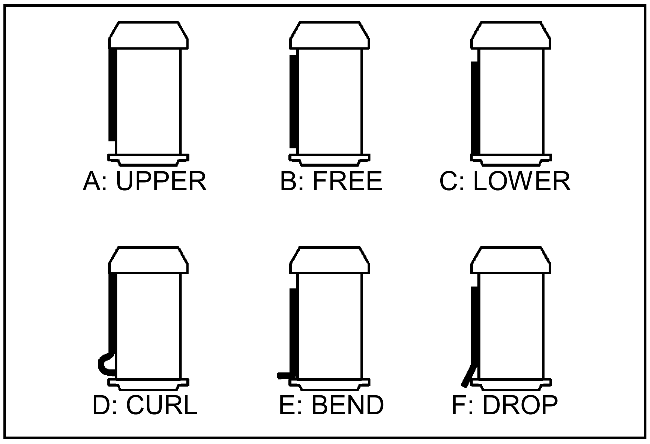


Figure 1-24-1

Note :
See page MECH-1 for post location.

1-25. FF/REW mode Limit Confirmation

MODE	FF, REW
TAPE	VFM3580KM or VFM3580KL
SPEC.	See the following table.

1. Place the unit in FF and REW mode and confirm each post limit.
2. This confirmation must be done after all tape path adjustments.

Post Name	Tape Limit (see figure 1-24-1)					
	A	B	C	D	E	F
S4 Post	OK	OK	OK	NG	NG	NG
S3 Post (Tension Post)	NG	OK	OK	NG	NG	NG
S2 Post	OK	NG	NG	NG	NG	NG
T2 Post	OK	OK	OK	NG	NG	NG
T5 Post	OK	OK	OK	NG	NG	NG
T6 Post	OK	OK	OK	NG	NG	NG

1-26. Lock Tight on A/C Head

<A/C Head Screw Lock Tight>

	Screw A, F	Screw G
Lock Tight Glue Quantity	Half of the Screw G	1/3 of the Screw

1. Fix the screw by the Lock Tight Glue after A/C Head Adjustment as shown in the figure below.
2. Remove the screw lock tight upon the adjustment.

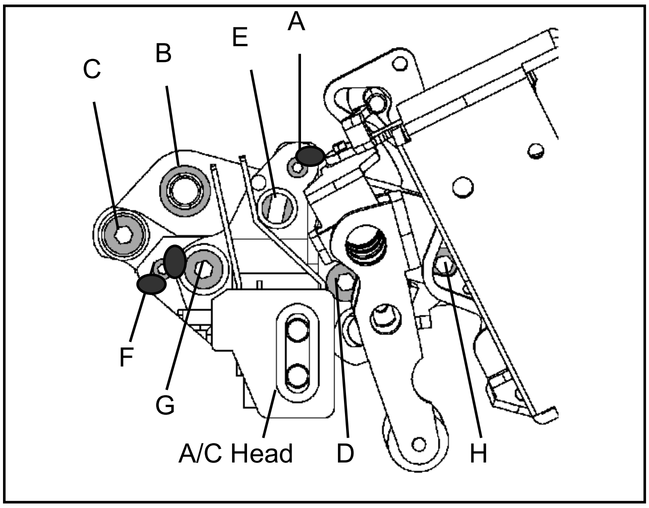
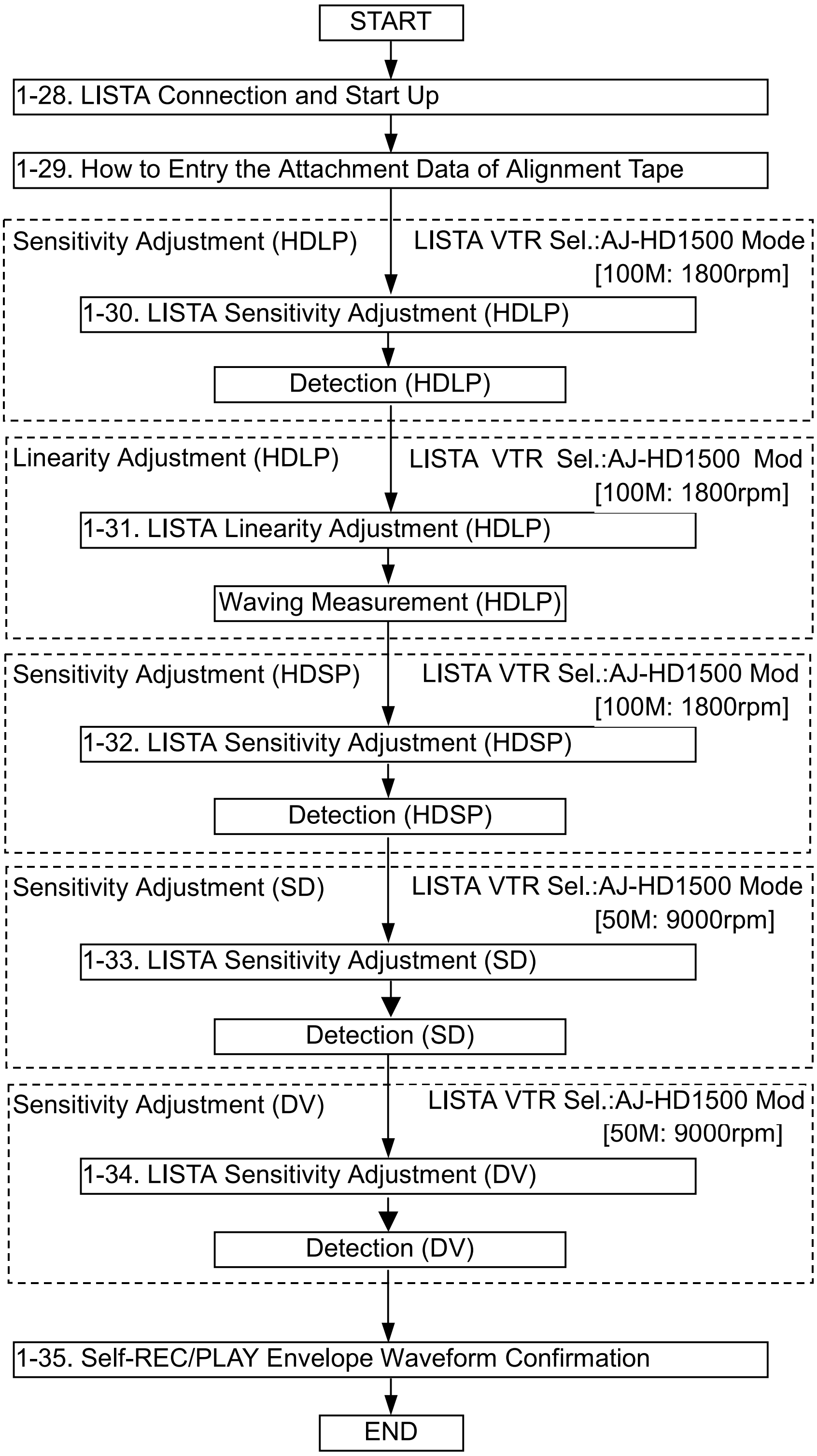


Figure 1-26-1

1-27. LISTA Adjustment Procedures

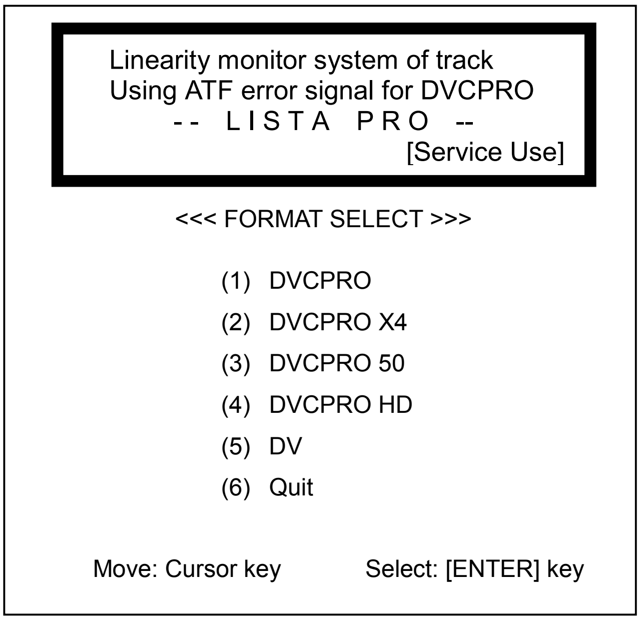

START
1-28. LISTA Connection and Start Up
1-29. How to Entry the Attachment Data of Alignment Tape
Sensitivity Adjustment (HDLP)
LISTA VTR Sel.:AJ-HD1500 Mode
[100M: 1800rpm]
1-30. LISTA Sensitivity Adjustment (HDLP)
Detection (HDLP)
Linearity Adjustment (HDLP)
LISTA VTR Sel.:AJ-HD1500 Mod
[100M: 1800rpm]
1-31. LISTA Linearity Adjustment (HDLP)
Waving Measurement (HDLP)
Sensitivity Adjustment (HDSP)
LISTA VTR Sel.:AJ-HD1500 Mod
[100M: 1800rpm]
1-32. LISTA Sensitivity Adjustment (HDSP)
Detection (HDSP)
Sensitivity Adjustment (SD)
LISTA VTR Sel.:AJ-HD1500 Mode
[50M: 9000rpm]
1-33. LISTA Sensitivity Adjustment (SD)
Detection (SD)
Sensitivity Adjustment (DV)
LISTA VTR Sel.:AJ-HD1500 Mod
[50M: 9000rpm]
1-34. LISTA Sensitivity Adjustment (DV)
Detection (DV)
1-35. Self-REC/PLAY Envelope Waveform Confirmation
END

1-28. LISTA Connection and Start Up

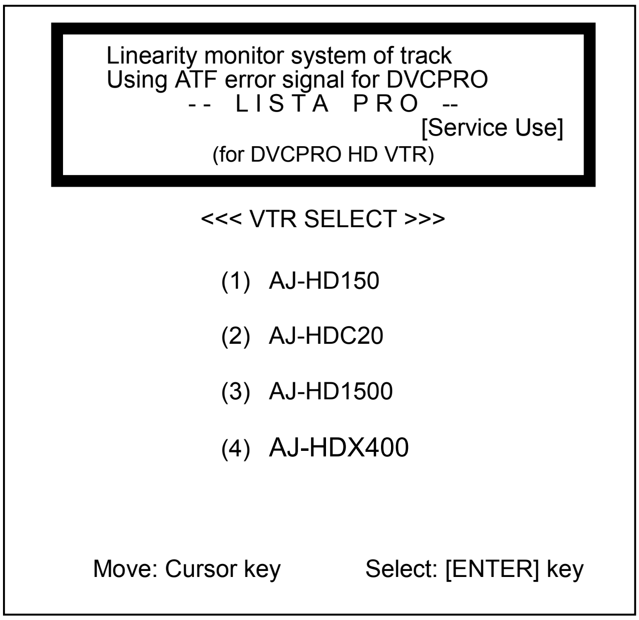
TAPE	VFM3781KML (LISTA), VFK3581KM/L (LISTA), VFM3000EDS (DV LISTA)
M. EQ	Personal Computer with A/D Board installed (Requires Window 95® or 98® and computer must have LSA slot.)
TOOL	VFK1481N (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board)
TP	TP405: ATF ERR RPL/TRL (RF/EQ Board: Slot 1) TP402: ATF ERR PBR13 (RF/EQ Board: Slot 1) TP5: R/P L HSW (RF/EQ Board: Slot 1) TP7: TR L HSW (HDSP/50) (RF/EQ Board: Slot 1) TP2: PB R13 HSW (DV) (RF/EQ Board: Slot 1)

1. Create a directory and copy all files on the floppy disk (VFK1481N: LISTA Software) to the new directory. (**i.e.:** C: \ LISTA)
2. Connect the LISTA cable to A/D Board in the PC.
3. Connect the clips of the LISTA cable to test points on the P.C.Board. (Refer to Items "Sensitivity Adjustment" and "Linearity Adjustment".)
4. Execute the LISTA software on DOS mode by typing 'LISTA' and pressing ENTER key.
5. When the **<<< FORMAT SELECT >>>** display appears, select <4> DVCPRO HD.
6. When the **<<< VTR SELECT >>>** display appears, select the item "<3>AJ-HD1500" according to the adjustment item as shown the table below.

Adjustment Item	VTR SELECT	FORMAT	Alignment Tape
HDLP Sensitivity Adjustment	AJ-HD1500	100M: 1800rpm	VFM3781KML
HDLP Linearity Adjustment			
HDSP Sensitivity Adjustment			VFM3581KM or KL
SD Sensitivity Adjustment		50M: 9000rpm	
DV Sensitivity Adjustment			VFM3000EDS



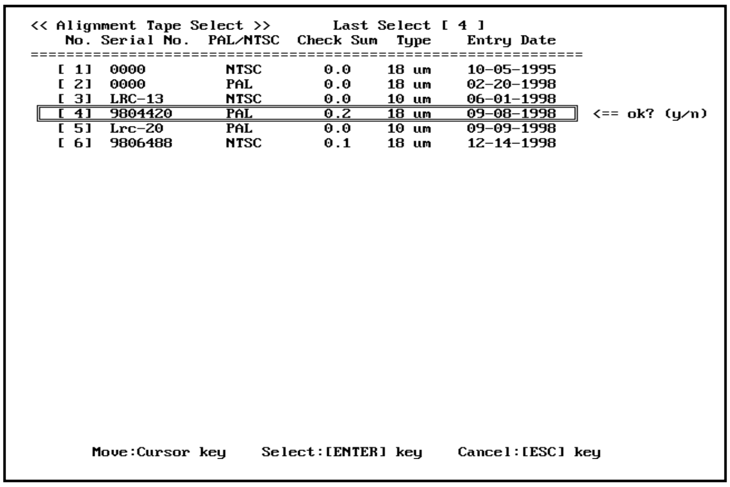
```
Linearity monitor system of track
Using ATF error signal for DVCPRO
        -- LISTA PRO --
                     [Service Use]

      <<< FORMAT SELECT >>>

        (1)  DVCPRO
        (2)  DVCPRO X4
        (3)  DVCPRO 50
        (4)  DVCPRO HD
        (5)  DV
        (6)  Quit

Move: Cursor key      Select: [ENTER] key
```



```
Linearity monitor system of track
Using ATF error signal for DVCPRO
        -- LISTA PRO --
                     [Service Use]
       (for DVCPRO HD VTR)

       <<< VTR SELECT >>>

        (1)  AJ-HD150
        (2)  AJ-HDC20
        (3)  AJ-HD1500
        (4)  AJ-HDX400

Move: Cursor key      Select: [ENTER] key
```

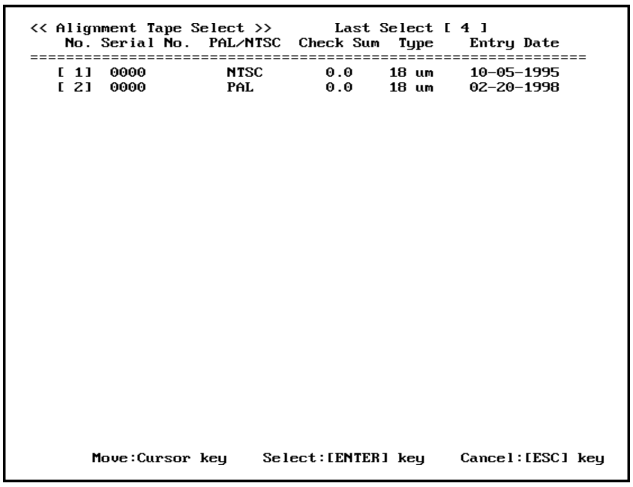
7. Select the Serial number of the Alignment tape on the screen. If the alignment tape to be used is not registered, the compensation data needs to be entered. Press the ESC key, and select the item "<4> Alignment Tape" in the main menu.

< In case Alignment Tape data is already registered >



```
<< Alignment Tape Select >>       Last Select [ 4 ]
    No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
=============================================================
   [ 1]  0000         NTSC        0.0     18 um    10-05-1995
   [ 2]  0000         PAL         0.0     18 um    02-20-1998
   [ 3]  LRC-13       NTSC        0.0     10 um    06-01-1998
   [ 4]  9804420      PAL         0.2     18 um    09-08-1998   <== ok? (y/n)
   [ 5]  Lrc-20       PAL         0.0     10 um    09-09-1998
   [ 6]  9806488      NTSC        0.1     18 um    12-14-1998

      Move:Cursor key    Select:[ENTER] key    Cancel:[ESC] key
```

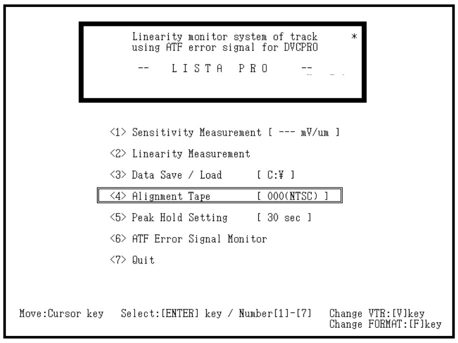
< In case Alignment Tape data is not registered >



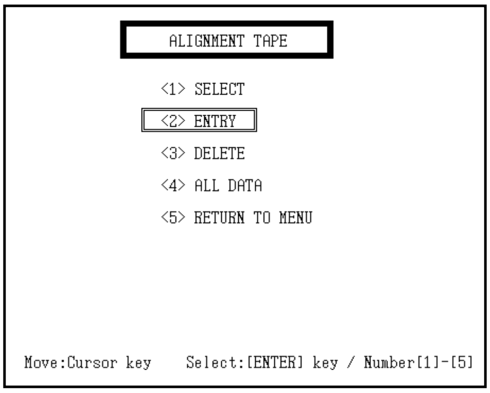
```
<< Alignment Tape Select >>       Last Select [ 4 ]
    No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
=============================================================
   [ 1]  0000         NTSC        0.0     18 um    10-05-1995
   [ 2]  0000         PAL         0.0     18 um    02-20-1998

      Move:Cursor key    Select:[ENTER] key    Cancel:[ESC] key
```

1-29. How to Entry the Attachment Data of Alignment Tape

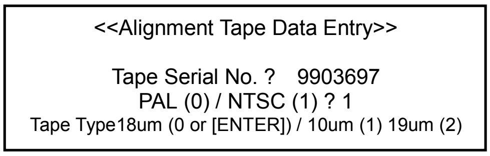
1. Select the item “<4> Alignment Tape” on the LISTA main menu.
2. Select the item “<2> ENTRY” on the alignment menu.
3. In the <<Alignment Tape Data Entry>> screen, input the Serial Number of alignment tape. And input the number “0” or “1” to select the PAL/NTSC. And select the type; “0” for DVCPRO, “1” for DV, or “2” for HDLP.
4. Input the numerical value on the data sheet. If inputting a wrong number.
5. After entry of data, select “<1> SELECT” on the Alignment Tape Menu and select the serial number of the alignment tape.



```
        Linearity monitor system of track       *
        using ATF error signal for DVCPRO

          --   L I S T A   P R O    --

     <1> Sensitivity Measurement [ --- mV/um ]
     <2> Linearity Measurement
     <3> Data Save / Load       [ C:¥ ]
     <4> Alignment Tape         [ 000(NTSC) ]
     <5> Peak Hold Setting      [ 30 sec ]
     <6> ATF Error Signal Monitor
     <7> Quit

Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                       Change FORMAT:[F]key
```

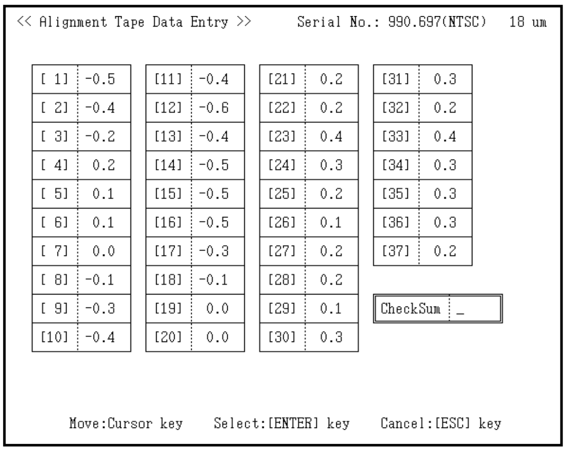


```
          ALIGNMENT TAPE

       <1> SELECT
       <2> ENTRY
       <3> DELETE
       <4> ALL DATA
       <5> RETURN TO MENU

Move:Cursor key    Select:[ENTER] key / Number[1]-[5]
```



<<Alignment Tape Data Entry>>

Tape Serial No. ? 9903697
PAL (0) / NTSC (1) ? 1
Tape Type18um (0 or [ENTER]) / 10um (1) 19um (2)



<< Alignment Tape Data Entry >>   Serial No.: 990.697(NTSC)   18 um

[1]	-0.5	[11]	-0.4	[21]	0.2	[31]	0.3
[2]	-0.4	[12]	-0.6	[22]	0.2	[32]	0.2
[3]	-0.2	[13]	-0.4	[23]	0.4	[33]	0.4
[4]	0.2	[14]	-0.5	[24]	0.3	[34]	0.3
[5]	0.1	[15]	-0.5	[25]	0.2	[35]	0.3
[6]	0.1	[16]	-0.5	[26]	0.1	[36]	0.3
[7]	0.0	[17]	-0.3	[27]	0.2	[37]	0.2
[8]	-0.1	[18]	-0.1	[28]	0.2		
[9]	-0.3	[19]	0.0	[29]	0.1	CheckSum	_
[10]	-0.4	[20]	0.0	[30]	0.3		

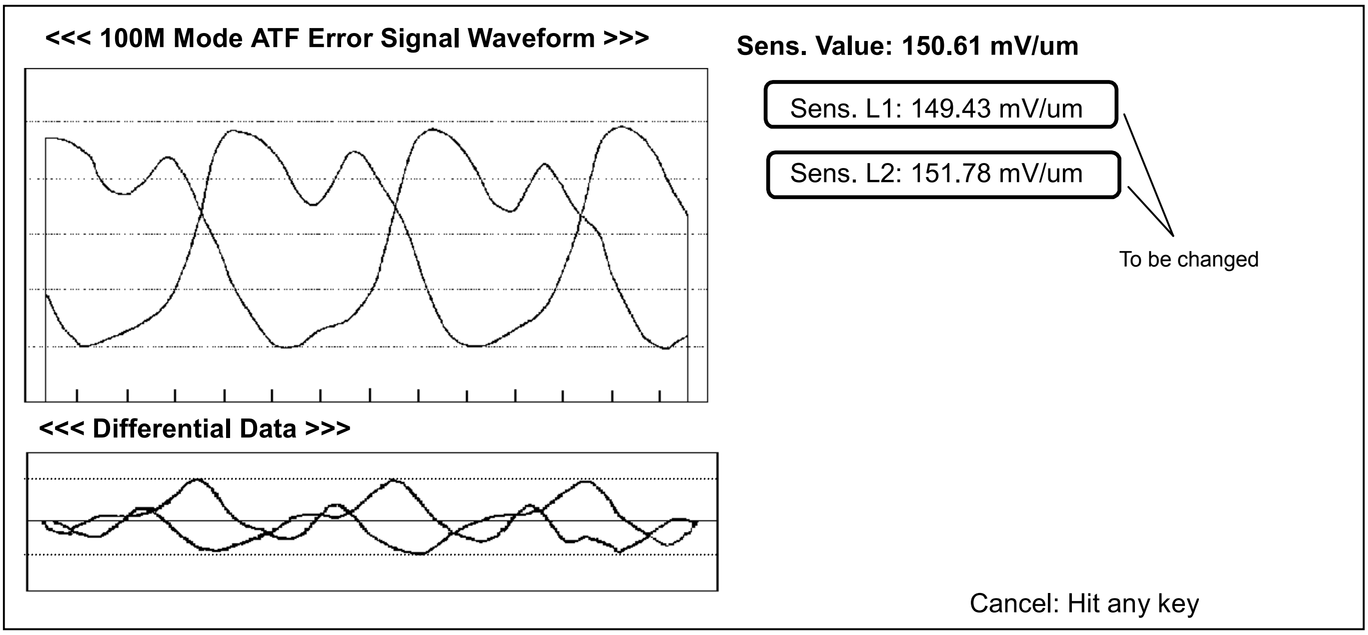
Move:Cursor key   Select:[ENTER] key   Cancel:[ESC] key

(Numbers are sample only, you must load correct numbers from Alignment Tape.)

1-30. LISTA Sensitivity Adjustment and Detection (HDLP)

TP	TP405 : ATF ERR RPL/TRL (RF/EQ Board: Slot 1) TP5 : R/P L HSW (RF/EQ Board: Slot 1) TG1 : GND (RF/EQ Board: Slot 1)
ADJ. (ATF GAIN)	Service menu: **A08: RPL GAIN HDL**
MODE	PLAY
LISTA	AJ-HD1500 [100M:1800rpm]
TAPE	VFM3781KML (LISTA)
SPEC.	150 ± 15 mV/um

1. Select “<3>AJ-HD1500” [100M: 1800rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
3. Open the SERVO ADJUST menu and select A08: RPL GAIN HDL.
4. Play back the LISTA Alignment Tape.
5. Select the item “<6> ATF Error Signal Monitor” on the LISTA main menu, and when message “1.2% Speed. . .” appears, press the Enter key.
6. Adjust EVR so that the “Sens. Value 1” on the upper right corner of the screen is within the specification.
7. After the adjustment, press the ESC key to return to the main menu.



<<< 100M Mode ATF Error Signal Waveform >>>

Sens. Value: 150.61 mV/um

Sens. L1: 149.43 mV/um

Sens. L2: 151.78 mV/um

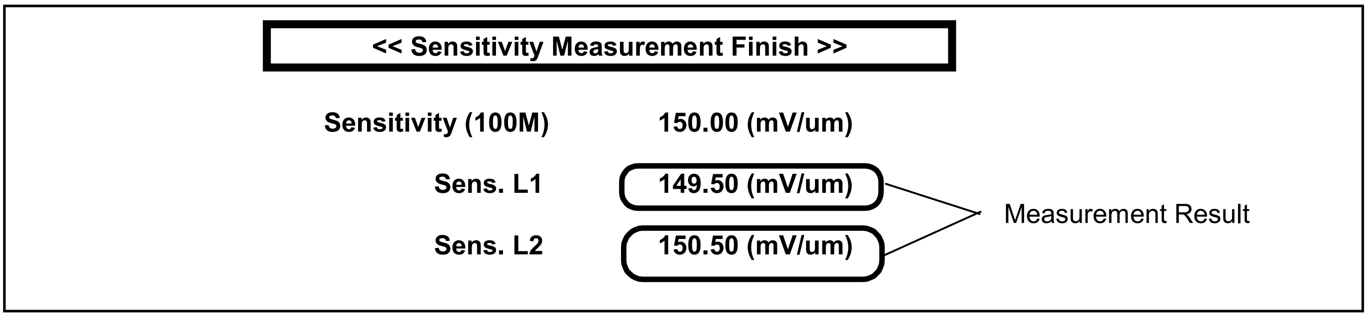
To be changed

<<< Differential Data >>>

Cancel: Hit any key

<Sensitivity Detection Procedure>

1. Open the SERVO ADJUST menu.
2. Select A08: RPL GAIN HDL.
3. Play Back the LISTA Alignment Tape.
4. Select the item “<1> Sensitivity Measurement” on the LISTA main menu, and then “1.2% Speed. . .” appears on the screen. Press the Enter key, and then start measurement of the sensitivity value.
5. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and “Sensitivity = Sensitivity Value” are displayed on screen.
6. If it is out of specification, repeat the step item 3, 4 and 5.
7. If still out of specification, execute the “Sensitivity Adjustment” again.



<< Sensitivity Measurement Finish >>

Sensitivity (100M) **150.00 (mV/um)**

Sens. L1 **149.50 (mV/um)**

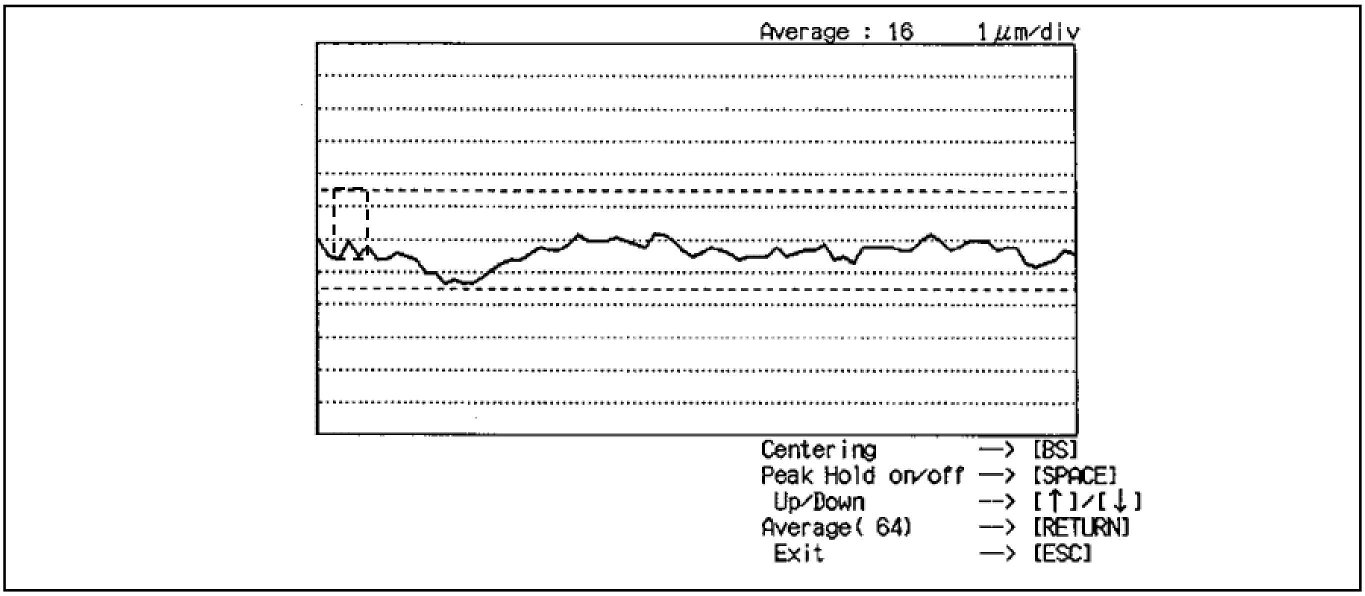
Sens. L2 **150.50 (mV/um)**

Measurement Result

1-31. LISTA Linearity Adjustment and Waving Measurement

TP	TP405: ATF ERR RPL/TRL (RF/EQ Board: Slot 1), TP5: R/P L HSW (RF/EQ Board: Slot 1), TG1: GND (RF/EQ Board: Slot 1)
ADJ.	S2 and T2 Post height Service menu: **A09 RPL LIN HDLP**
MODE	PLAY
TAPE	VFM3781KML (LISTA)
LISTA	AJ-HD1500 [100M: 1800rpm]
TOOL	VFK1149B (Post Driver)
SPEC.	Linearity: less than 3um, Waving: less than 1.5um

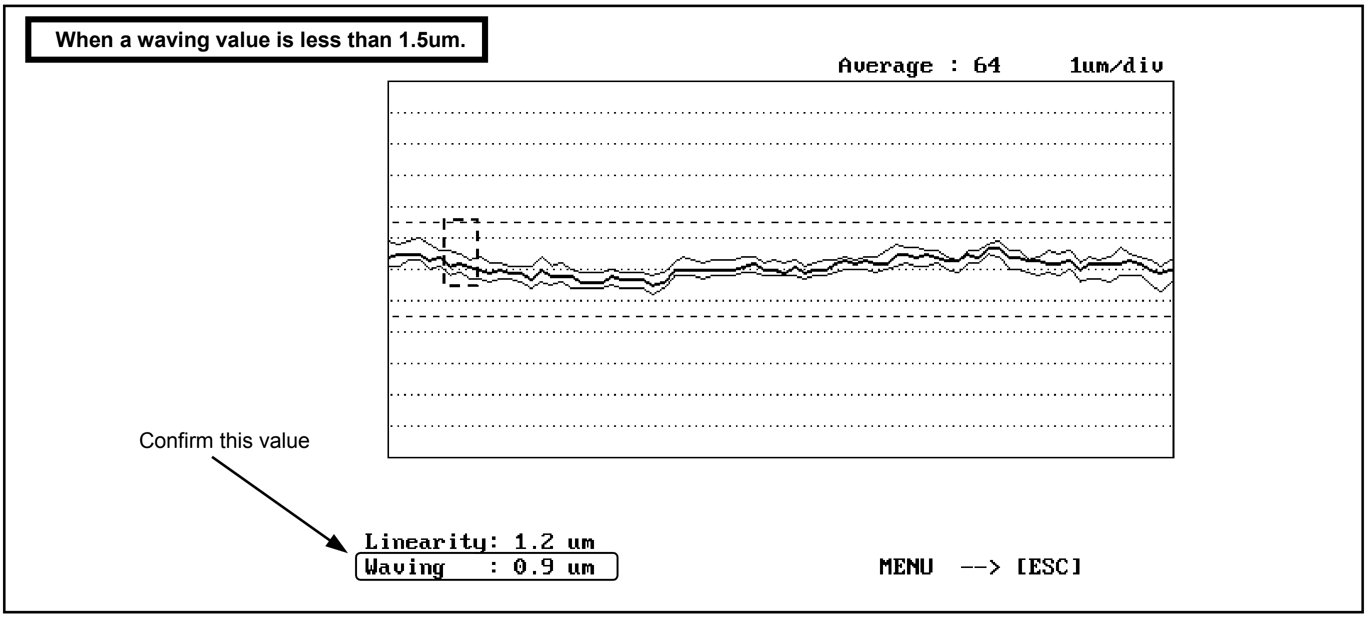
1. Select “<3> AJ-HD1500” [100M: 1800rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
3. Open the SERVO ADJUST Menu and select the **A09: RPL LIN HDLP** menu.
4. Play Back the LISTA Alignment Tape.
5. Select the item “<2> Linearity Measurement” on the LISTA Main Menu, then Linearity Waveform appears.
6. When the waveform is displayed on the screen, press the “BS (Back Space)” key to cauterize the waveform. Adjust S2 and T2 post heights by using the post driver so that the linearity waveform becomes as flat as possible.
   (♦ Adjust linearity waveform between the red dot lines on the screen. Disregard the bending part at the exit side and the square at the entrance side.)
7. After the Linearity Adjustment, measure the numerical value of linearity and waving by pressing the space key.



POINT:
The left side of waveform (entrance side) is adjusted by height of S2 post and the right side of waveform (exit side) is adjusted by height of T2 post.
Lower part of above waveform is displayed as the cylinder lead.
When the post driver is removed from a post, linearity waveform may change.
After finishing this adjustment, eject the tape and insert the tape again to confirm that the shape of linearity waveform does not change.

Waving Measurement Procedures

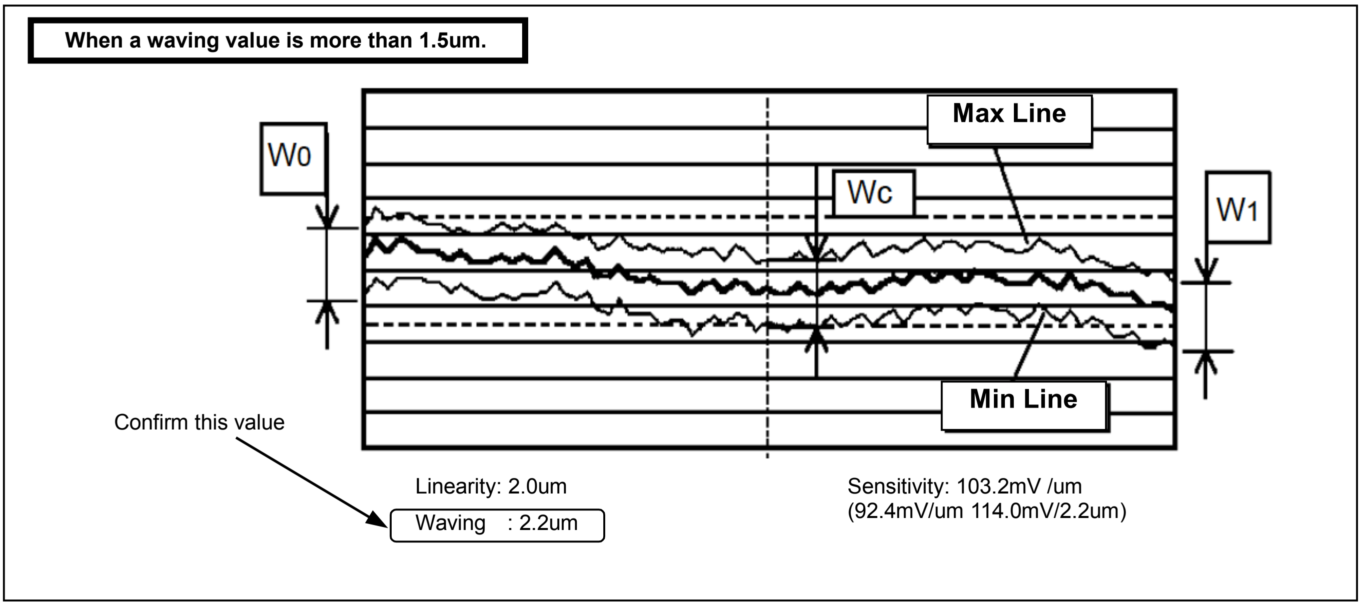
1. Press “SPACE” key to perform the Peak Hold in 30 seconds while linearity is displayed.
2. After sampling the Peak Hold, press “SHIFT” and “ } ” key simultaneously on the Key Board, then the numerical values of “Linearity” and “Waving” are displayed. Confirm that the numerical values are in the specification. Also confirm that the waving level is almost equal from the entrance to the exit side. If the “Linearity” or “Waving” is out of specification, adjust height of S2 or T2 post.
3. Press the ESC key to return to the main menu.



When a waving value is less than 1.5um.

```
Average : 64     1um/div

Linearity: 1.2 um
Waving    : 0.9 um              MENU  --> [ESC]
```

Confirm this value



When a waving value is more than 1.5um.

Linearity: 2.0um
Waving : 2.2um

Sensitivity: 103.2mV /um
(92.4mV/um 114.0mV/2.2um)

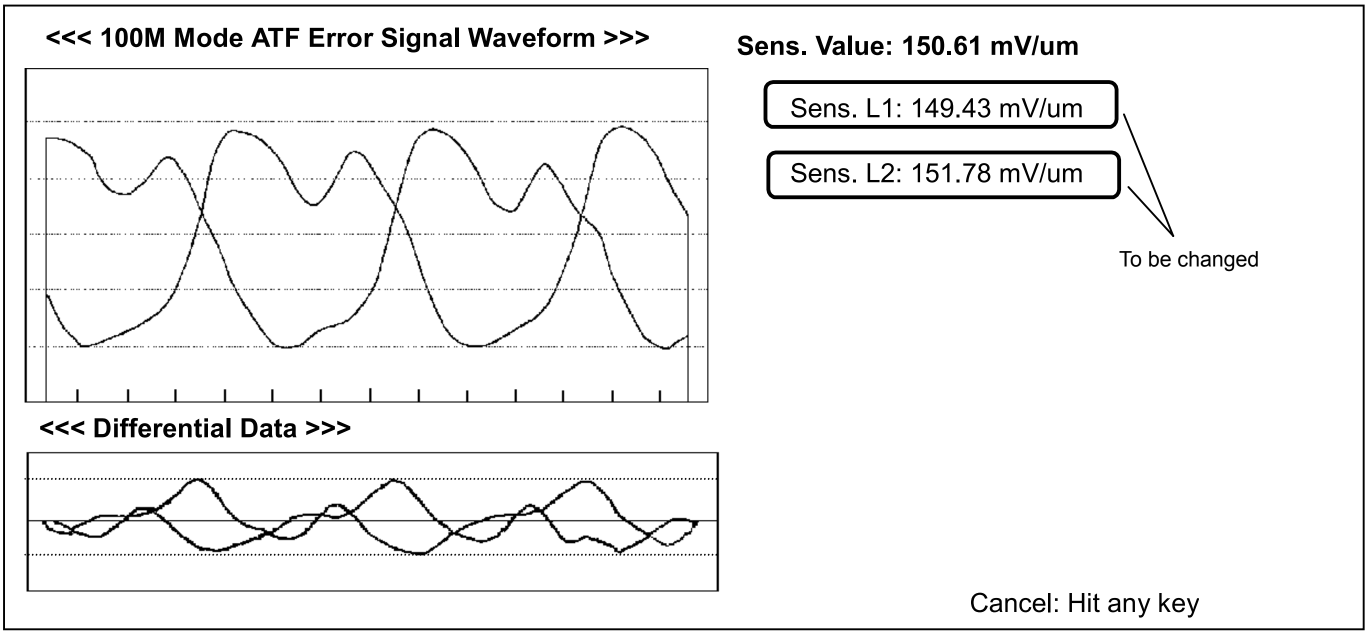
Confirm this value

1-32. LISTA Sensitivity Adjustment and Detection (HDSP)

TP	TP405 : ATF ERR RPL/TRL (RF/EQ Board: Slot 1) TP7 : R/P L HSW [HDSP/50] (RF/EQ Board: Slot 1) TG1 : GND (RF/EQ Board: Slot 1)
ADJ. (ATF GAIN)	Service menu: A10: RPL GAIN HDS
MODE	PLAY
LISTA	AJ-HD1500 [100M: 1800rpm]
TAPE	VFM3581KM or VFM3581KL [DVCPRO LISTA]
SPEC.	100 ± 10 mV/um

<Sensitivity Adjustment Procedure>

1. Select the AJ-HD1500 [100M: 1800rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
4. Open the SERVO ADJUST menu and select A10: RPL GAIN HDS menu.
5. Play back the LISTA Alignment Tape.
6. Select the item “<6> ATF Error Signal Monitor” on the LISTA main menu, and when message “1.2% Speed. . .” appears, press the Enter key.
7. Adjust EVR so that the “Sens. Value 1” on the upper right corner of the screen is within the specification.
8. After the adjustment, press the ESC key to return to the main menu.


<<< 100M Mode ATF Error Signal Waveform >>>

<<< Differential Data >>>

Sens. Value: 150.61 mV/um

Sens. L1: 149.43 mV/um

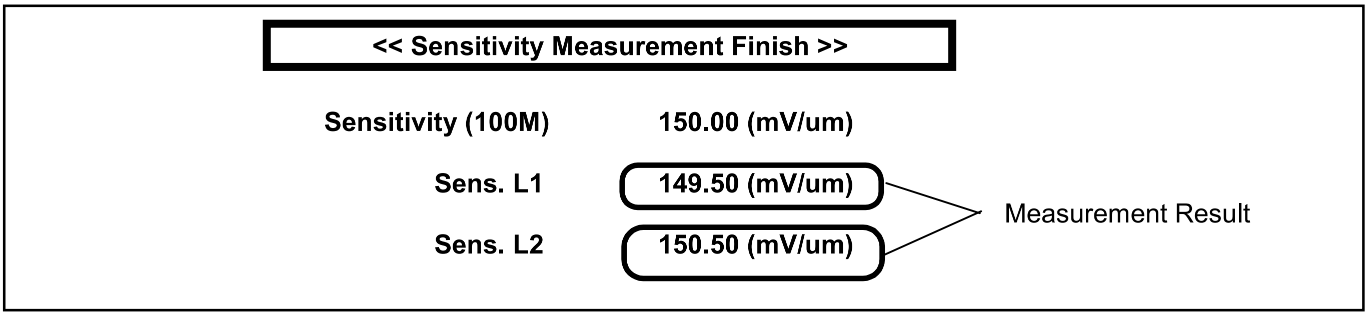
Sens. L2: 151.78 mV/um

To be changed

Cancel: Hit any key

<Sensitivity Detection Procedure>

1. Open the SERVO ADJUST menu.
2. Select A10: RPL GAIN HDS.
3. Play Back the LISTA Alignment Tape.
4. Select the item “<1> Sensitivity Measurement” on the LISTA main menu, and then “1.2% Speed. . .” appears on the screen. Press the Enter key, and then start measurement of the sensitivity value.
5. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and “Sensitivity = Sensitivity Value” are displayed on screen.
6. If it is out of specification, repeat the step item 3, 4 and 5.
7. If still out of specification, execute the “Sensitivity Adjustment” again.


<< Sensitivity Measurement Finish >>

Sensitivity (100M) **150.00 (mV/um)**

Sens. L1 **149.50 (mV/um)**

Sens. L2 **150.50 (mV/um)**

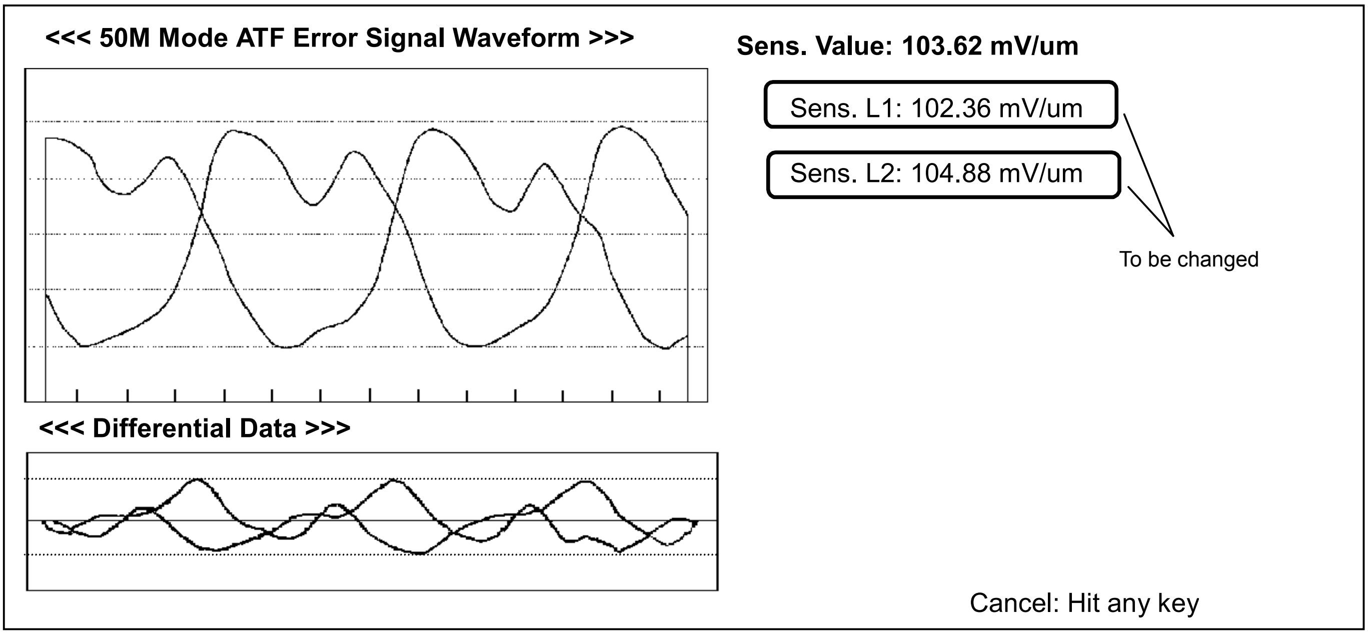
Measurement Result

1-33. LISTA Sensitivity Adjustment and Detection (SD)

TP	TP405 : ATF ERR RPL/TRL (RF/EQ Board: Slot 1) TP4 : TR L HSW (RF/EQ Board: Slot 1) TG1 : GND (RF/EQ Board: Slot 1)
ADJ. (ATF GAIN)	Service menu: **A11: RPL GAIN 50**
MODE	PLAY
LISTA	AJ-HD1500 [50M: 9000rpm]
TAPE	**VFM3581KM or** **VFM3581KL [DVCPRO LISTA]**
SPEC.	100 ± 10 mV/um

<Sensitivity Adjustment Procedure>

1. Select the “<1> AJ-HD1500” [50M: 9000rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
3. Open the SERVO ADJUST menu and select “A11: TRL GAIN 50”.
4. Play back the LISTA Alignment Tape.
5. Select the item “<6> ATF Error Signal Monitor” on the LISTA main menu, and when message “1.2% Speed….” appears, press the Enter key.
6. Adjust EVR so that the “Sens. Value 1” on the upper right corner of the screen is within the specification.
7. After the adjustment, press the ESC key to return to the main menu.


<<< 50M Mode ATF Error Signal Waveform >>>
<<< Differential Data >>>
To be changed

Sens. Value: 103.62 mV/um

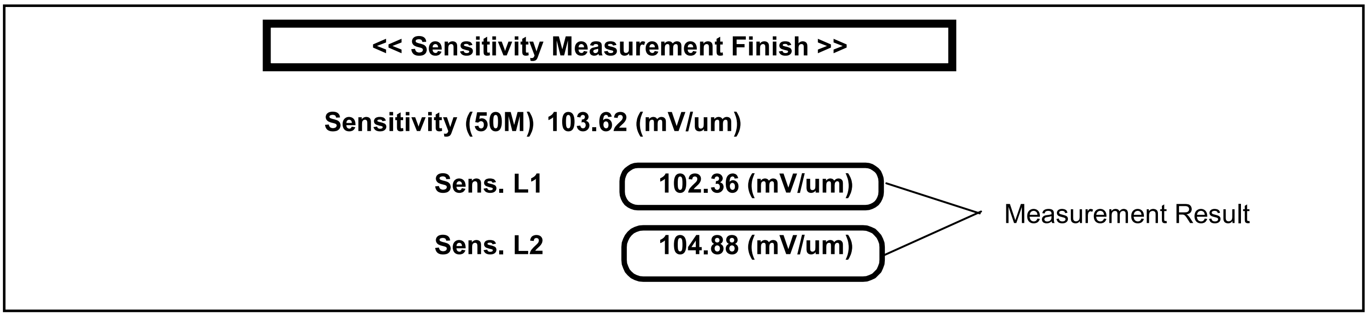
Sens. L1: 102.36 mV/um

Sens. L2: 104.88 mV/um

Cancel: Hit any key

<Sensitivity Detection Procedure>

1. Open the SERVO ADJUST menu.
2. Select A11: RPL GAIN 50.
3. Play Back the LISTA Alignment Tape.
4. Select the item “<1> Sensitivity Measurement” on the LISTA main menu, and then “1.2% Speed. . .” appears on the screen. Press the Enter key, and then start measurement of the sensitivity value.
5. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and “Sensitivity = Sensitivity Value” are displayed on screen.
6. If it is out of specification, repeat the step item 3, 4 and 5.
7. If still out of specification, execute the “Sensitivity Adjustment” again.



<< Sensitivity Measurement Finish >>

Sensitivity (50M) 103.62 (mV/um)

Sens. L1 **102.36 (mV/um)**

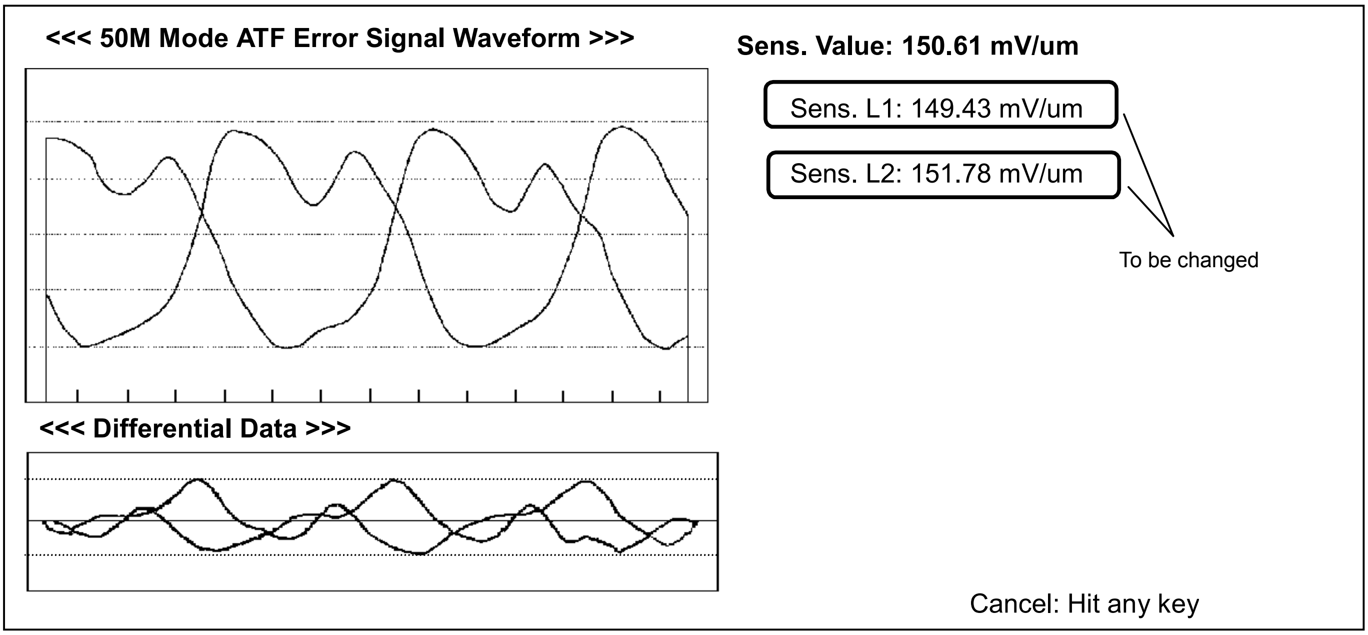
Sens. L2 **104.88 (mV/um)**

1-34. LISTA Sensitivity Adjustment and Detection (DV)

TP	TP402 : ATF ERR PBR13 (RF/EQ Board: Slot 1) TP2 : R/P R HSW (DV) (RF/EQ Board: Slot 1)
ADJ. (ATF GAIN)	Service menu: **A12: RPR GAIN DV**
MODE	PLAY
LISTA	AJ-HD1500 [50M: 9000rpm]
TAPE	**VFM3000EDS (DV LISTA)**
SPEC.	150 ± 30 mV/um

<Sensitivity Adjustment Procedure>

1. Select the AJ-HD1500 [50M: 9000rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
3. Open the SERVO ADJUST menu and select A12: RPR GAIN DV menu
4. Play back the LISTA Alignment Tape.
5. Select the item "<6> ATF Error Signal Monitor" on the LISTA main menu, and when message "1.2% Speed. . ." appears, press the Enter key.
6. Adjust EVR so that the "Sens. Value 1" on the upper right corner of the screen is within the specification.
7. After the adjustment, press the ESC key to return to the main menu.



<<< 50M Mode ATF Error Signal Waveform >>>

<<< Differential Data >>>

Sens. Value: 150.61 mV/um

Sens. L1: 149.43 mV/um

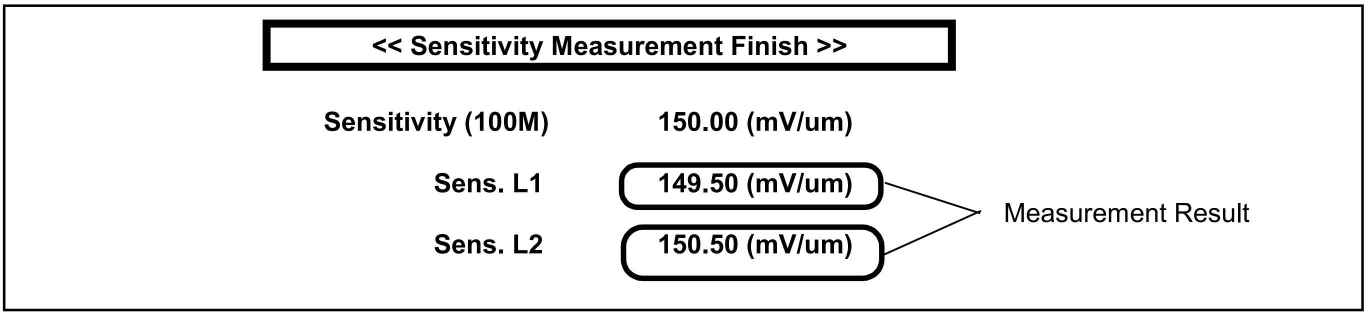
Sens. L2: 151.78 mV/um

To be changed

Cancel: Hit any key

<Sensitivity Detection Procedure>

1. Open the SERVO ADJUST menu.
2. Select A12: RPR GAIN DV.
3. Play Back the LISTA Alignment Tape.
4. Select the item "<1> Sensitivity Measurement" on the LISTA main menu, and then "1.2% Speed. . ." appears on the screen. Press the Enter key, and then start measurement of the sensitivity value.
5. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and "Sensitivity = Sensitivity Value" are displayed on screen.
6. If it is out of specification, repeat the step item 3, 4 and 5.
7. If still out of specification, execute the "Sensitivity Adjustment" again.



<< Sensitivity Measurement Finish >>

Sensitivity (100M) **150.00 (mV/um)**

Sens. L1 **149.50 (mV/um)**

Sens. L2 **150.50 (mV/um)**

Measurement Result

1-35. Self-REC/PLAY Envelope Waveform Confirmation

TP	TP105: R/P L-ENV (RF/EQ Board: slot1) TP5 : R/P L-HSW (RF/EQ Board: slot1) TP101 : PB L13-ENV (RF/EQ Board: slot1) TP102 : PB R13-ENV (RF/EQ Board: slot1) TP103: PB L24-ENV (RF/EQ Board: slot1) TP104 : PB R24-ENV (RF/EQ Board: slot1) TP105: PB TR L-ENV (RF/EQ Board: slot1) TP7: TR L-HSW (RF/EQ Board: slot1)
REC SIG	Internal CW Signal (Refer to the following procedure.)
M. EQ	Oscilloscope
TAPE	Blank M Cassette Tape (66 min.), Blank EX L Cassette Tape (126 min.)
SPEC.	Ordinary M Cassette (66 min.) or L Cassette (126 min): V1/Vmax, V3/Vmax ≥ 0.7, V2/Vmax ≥ 0.8 EX L Cassette: V1/V max, V2/V max, V3/Vmax 0.7

1. Turn off the VTR main power.
2. Temporally lift up the RF_EQ Board and set the jumper switches SW201 and SW202 to the CW Generate Mode (connecting Pin 1 and 2) as shown in figure 1-35-1.

Jumper Switch: SW201, SW202

1 2 3 : Normal Mode
○ ● ● (Jumper between pins 2 and 3)

1 2 3 : Internal CW Generate Mode
● ● ○ (Jumper between pins 1 and 2)

Figure 1-35-1

3. Reinstall the RF_EQ Board to the original slot and turn on the main power.
4. Record the internal CW signal for a few seconds.
5. Open the service menu and select “TRACKING MODE”: CTL and play back the portion just recorded.
6. Adjust “TRACKING VAL” so that the envelope level becomes maximum.
7. Confirm that the envelope output is in the specification.

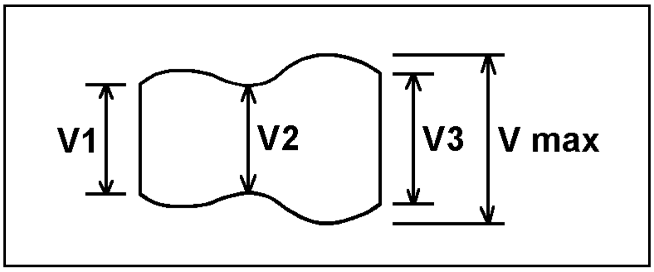


Fig. 1-35-2

8. Perform the same confirmation for each heads as shown the table below.

ENVELOPE	TP	ADJUST MENU	
R/P L-ENV	105	B-1: HDLP_PB	B17: TRACKING MOD = CTL B18: TRACKING VAL = Env. Max.
PB L13-ENV	101	B-2: HDSP	
PB R13-ENV	102		
PB L24-ENV	103		
PB R24-ENV	104		
PB TR L-ENV	105		

9 If it is out of specification, execute the items “ENV Waveform Adjustment” and “LISTA Adjustment”.

2. Replacement and Adjustment Procedures of Major Parts

GENERAL

When mechanical parts are replaced, pay attention to the following notes.

1. Always turn power off before replacing any parts.
2. If any adjustment is required after replacing parts, perform the required adjustment.
3. Use proper tools and fixtures.
4. Be sure to clean the parts after replacement, and also to replace the mechanical parts, following the replacement procedure.

Refer to the Section 1 of Service Information regarding to the each parts maintenance schedule.

2-1. Replacement of Cylinder Unit

(Removal)

1. Disconnect the upper flexible cable which connected to the connector P2 on the RF/CUE Board.
2. Open the Power 3 Board and Servo Board under the Mechanical Cassis.
3. Disconnect the lower flexible cables which connected to the connector P3 and P4 on the RF/CUE Board, and P33 on the MECHA I/F Board.
4. Unscrew the 3 screws (A) (with spring) which fix the Cylinder Unit as shown in Figure 2-1-1, then remove the Cylinder Unit without touching any mechanical parts.

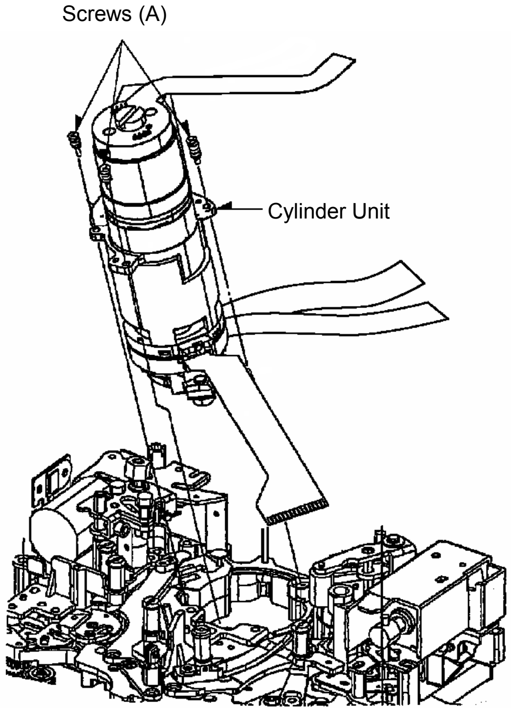


Fig. 2-1-1

(Installation)

1. Install the Cylinder Unit in the reverse steps of the removal

Note :

Don't touch the cylinder unit with fingers directly, when installing the new cylinder they will oil film on head.
When installing the Cylinder Unit, the pin on Mecha. Chassis should mach with holes of cylinder unit.

2-2. Replacement of Cleaning Arm Unit

(Removal)

1. Remove the Cut Washer (A) as shown in Fig. 2-2-1 and unhook spring from Cleaning Arm Unit and then, remove the Cleaning Arm Unit.

Note :

Do not touch the Cleaning Roller by finger directly.

(Installation)

1. Install the Cleaning Arm Unit to the pin on the Mechanical Chassis Unit and the cut washer (A) then hook the spring to the Cleaning Arm Unit.
2. After installation, the position adjustment of the Cleaner Solenoid is required.

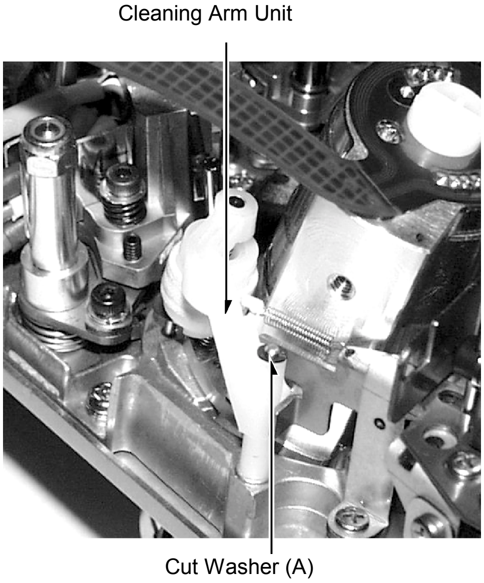

Cleaning Arm Unit
Cut Washer (A)

Fig. 2-2-1

(Position Adjustment of Cleaner Solenoid)

1. Press the core of Cleaner Solenoid.
2. Confirm that the gap (C) between the Cleaner Connection Rod and Cleaner Arm Unit is 0.95mm and the gap (D) is 0.7±0.1mm as shown in Fig. 2-2-2.
3. If the out of specification, loosen the 2 screws (B) as shown in Fig. 2-2-2.
4. Move the Cleaner Solenoid to an arrow direction so that the gap (C) and (D) are within the specification.
5. Press the core of Cleaner Solenoid by hand.
6. Confirm that the Cleaner Roller touches with the Cylinder and returns to the original position when release the hand from it.

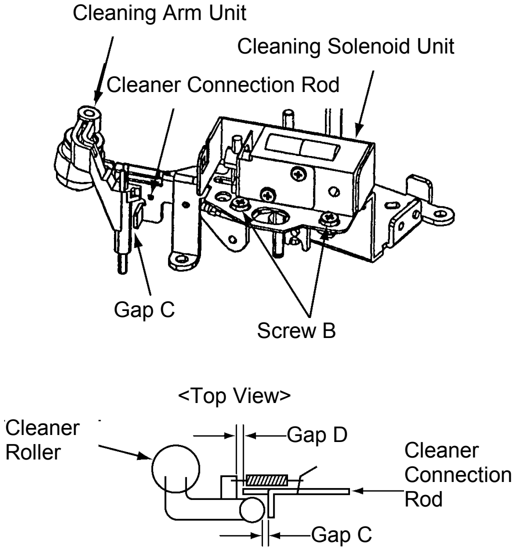
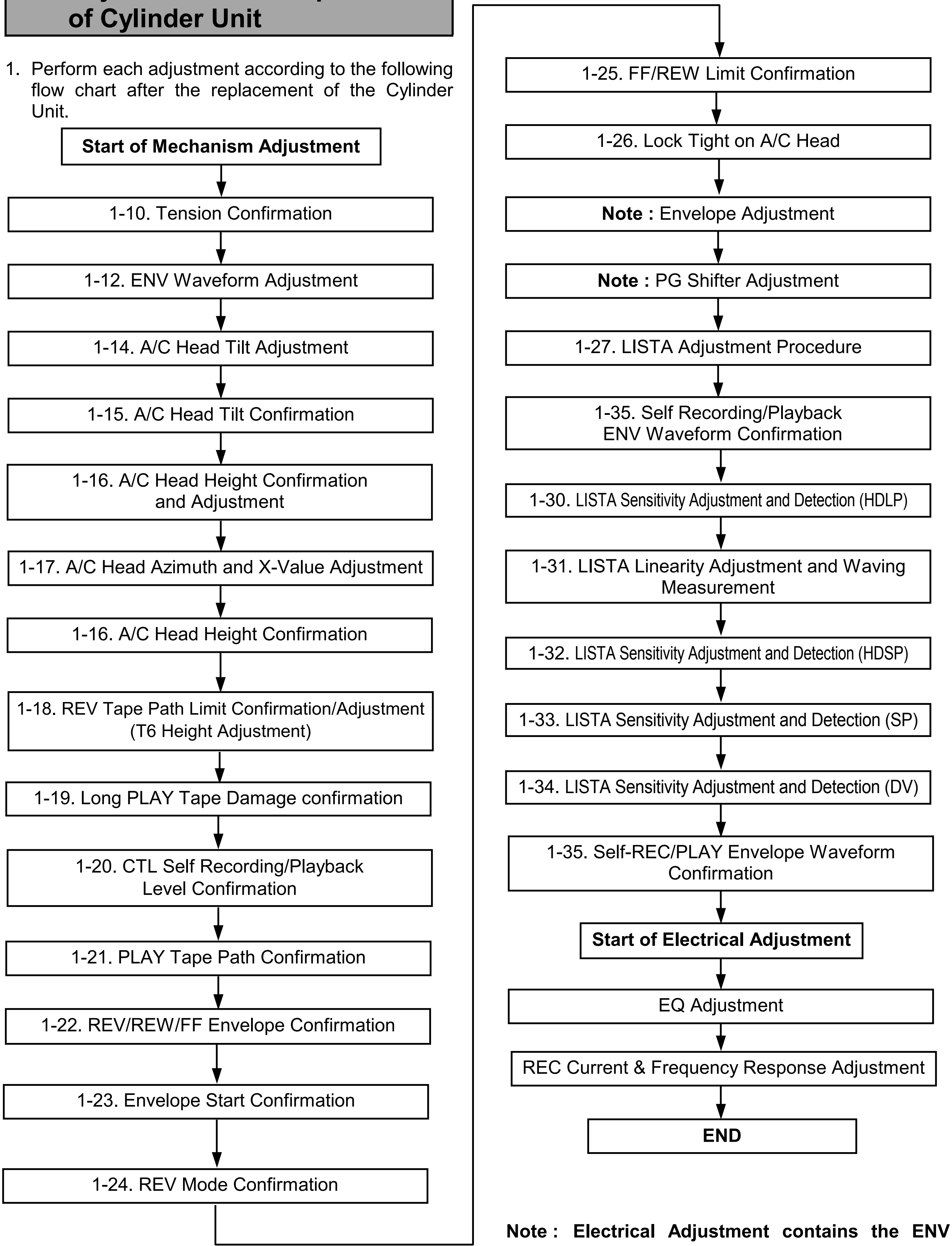

Cleaning Arm Unit
Cleaning Solenoid Unit
Cleaner Connection Rod
Gap C
Screw B
<Top View>
Cleaner Roller
Gap D
Cleaner Connection Rod
Gap C

Fig. 2-2-2

2-3. Adjustment after Replacement of Cylinder Unit

1. Perform each adjustment according to the following flow chart after the replacement of the Cylinder Unit.



Start of Mechanism Adjustment
1-10. Tension Confirmation
1-12. ENV Waveform Adjustment
1-14. A/C Head Tilt Adjustment
1-15. A/C Head Tilt Confirmation
1-16. A/C Head Height Confirmation and Adjustment
1-17. A/C Head Azimuth and X-Value Adjustment
1-16. A/C Head Height Confirmation
1-18. REV Tape Path Limit Confirmation/Adjustment (T6 Height Adjustment)
1-19. Long PLAY Tape Damage confirmation
1-20. CTL Self Recording/Playback Level Confirmation
1-21. PLAY Tape Path Confirmation
1-22. REV/REW/FF Envelope Confirmation
1-23. Envelope Start Confirmation
1-24. REV Mode Confirmation
1-25. FF/REW Limit Confirmation
1-26. Lock Tight on A/C Head
Note : Envelope Adjustment
Note : PG Shifter Adjustment
1-27. LISTA Adjustment Procedure
1-35. Self Recording/Playback ENV Waveform Confirmation
1-30. LISTA Sensitivity Adjustment and Detection (HDLP)
1-31. LISTA Linearity Adjustment and Waving Measurement
1-32. LISTA Sensitivity Adjustment and Detection (HDSP)
1-33. LISTA Sensitivity Adjustment and Detection (SP)
1-34. LISTA Sensitivity Adjustment and Detection (DV)
1-35. Self-REC/PLAY Envelope Waveform Confirmation
Start of Electrical Adjustment
EQ Adjustment
REC Current & Frequency Response Adjustment
END

Note : Electrical Adjustment contains the ENV Level Adjustment and PG Shifter Adjustment.

2-4. Pinch Solenoid Replacement

(Removal)

1. Disconnect the connector P20 on the Mech. I/F P.C.Board.
2. Unscrew the 2 screws (A) and remove the Pinch Solenoid cover and Pinch Solenoid Angle as shown in Figure 2-4-1.
3. Unscrew the 2 screws (B) and remove the Pinch Solenoid with the Solenoid Base as shown in Figure 2-4-1.
4. Unscrew the 2 screws(C) and remove the Pinch Solenoid as shown In Figure 2-4-1.

(Installation)

1. Install the Pinch Solenoid in the reverse steps of the removal.
   After installation, adjust the Pinch Solenoid Position Adjustment.

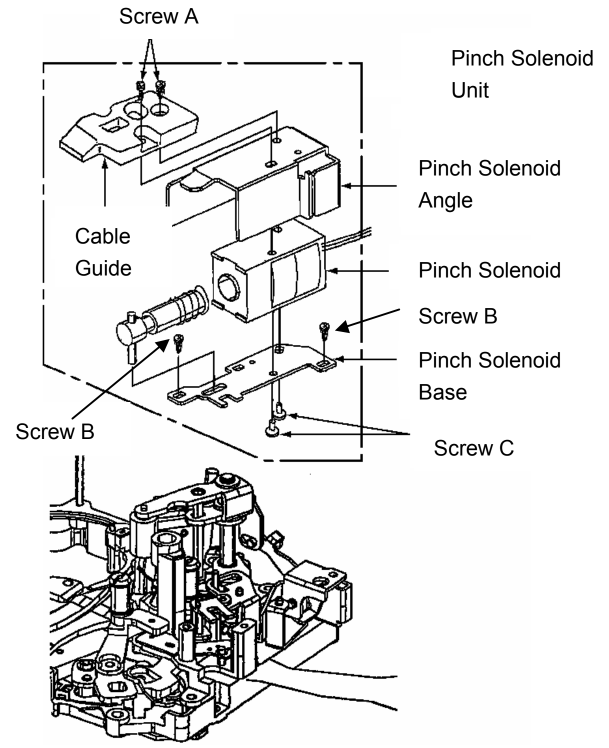

Screw A
Pinch Solenoid Unit
Pinch Solenoid Angle
Cable Guide
Pinch Solenoid
Screw B
Pinch Solenoid Base
Screw B
Screw C

Fig.2-4-1

2-5. Pinch Solenoid Position Adj.

ADJ.	Screws(C),(D) and Hole (B)
TP	Clearance T
MODE	EJECT (Power Off)
TOOL	VFK0357 (Eccentric Driver)
SPEC	T=0.3mm to 0.5mm

1. Confirm that the Pinch Solenoid Cover and Pinch Solenoid Angle are removed .
2. Turn the Emergency Screw clockwise, and place the VTR in loading condition
3. Press the core of Pinch Solenoid so that the Pinch Roller touches with the Capstan.
4. Loosen the 2 screws(C),(D) and Adjust hole(B) by VFK0375 so that the clearance(T) is within specification.
5. After position adjustment, fix the solenoid position with screw(C),(D)

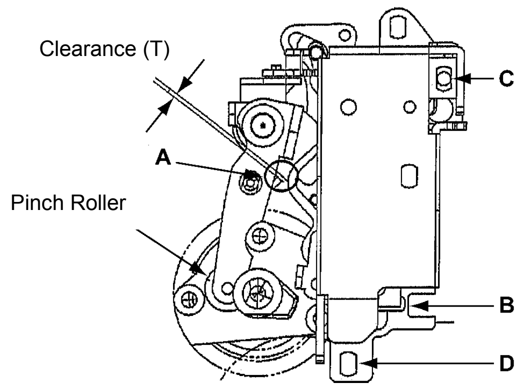

Clearance (T)
C
A
Pinch Roller
B
D

Fig.2-5-1

2-6. Replacement of Capstan Unit

(Removal)

1. Disconnect the connector on the MECHA I/F Board. (rear side of the Mechanical Chassis)
2. Unscrew the 3 screws (A) as shown in Fig. 2-6-1 and then remove the Capstan Unit from the lower side of Mechanical Chassis.

(Installation)

1. Install the new Capstan Unit in reverse steps of the removal..

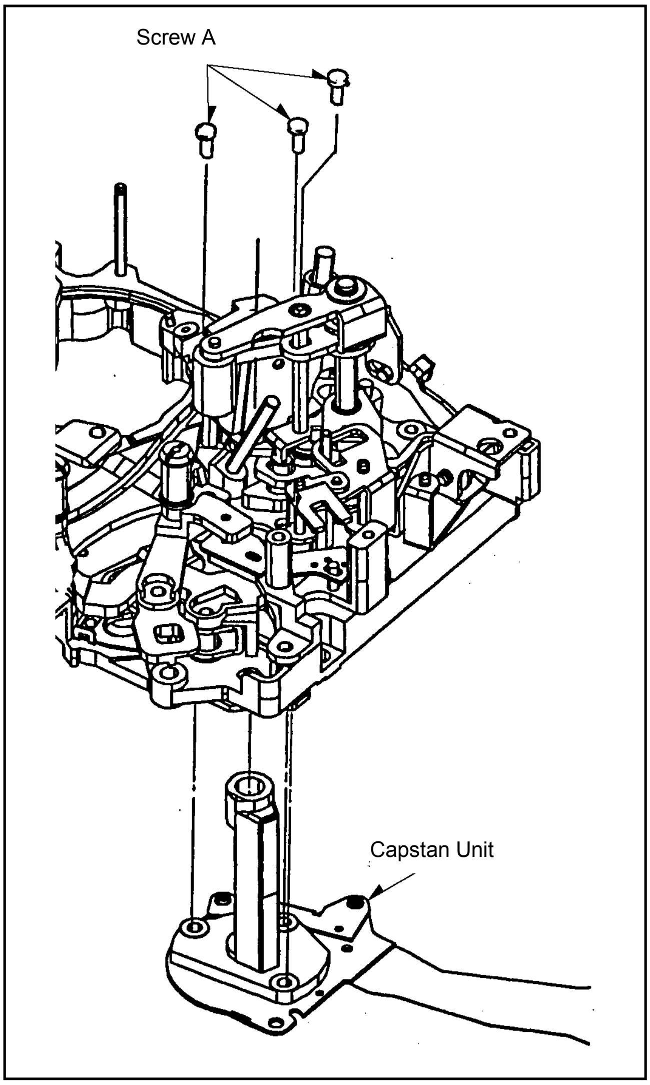


Fig. 2-6-1

2-7. Replacement and Adjustment of A/C Head Unit

(Removal)

1. Unscrew the spring screw(A) as shown in Fig.s 2-7-1 and 2-7-2 and then remove the A/C Head 1 Unit.

(Installation)

1. Install the A/C Head 1 Unit in reverse steps of the removal. Tighten the screw (A) with 10cN·m (1Kgf·m) torque.
2. Clean the surface of A/C Head.

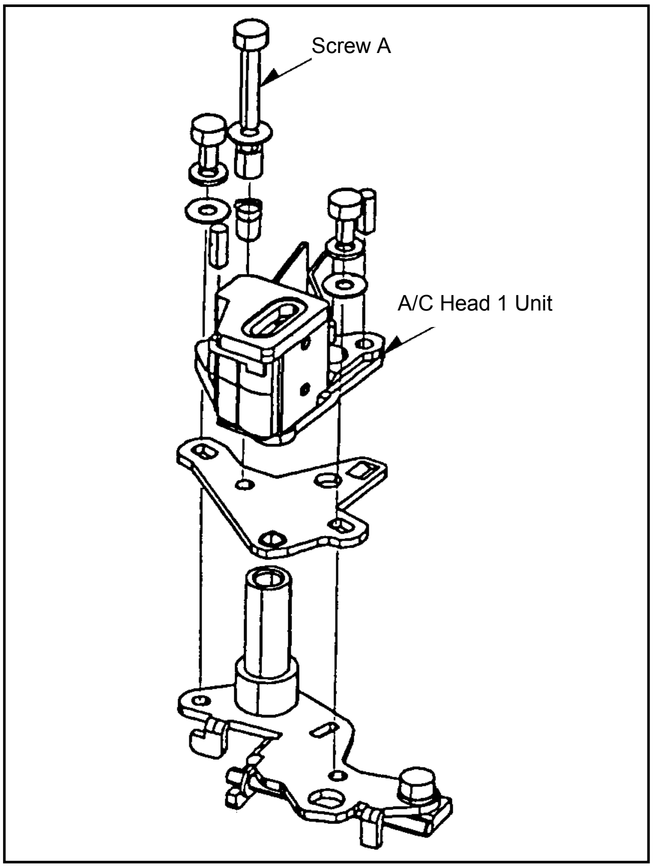


Fig. 2-7-1

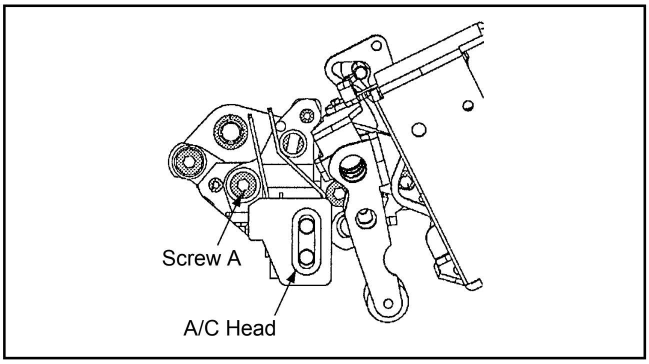
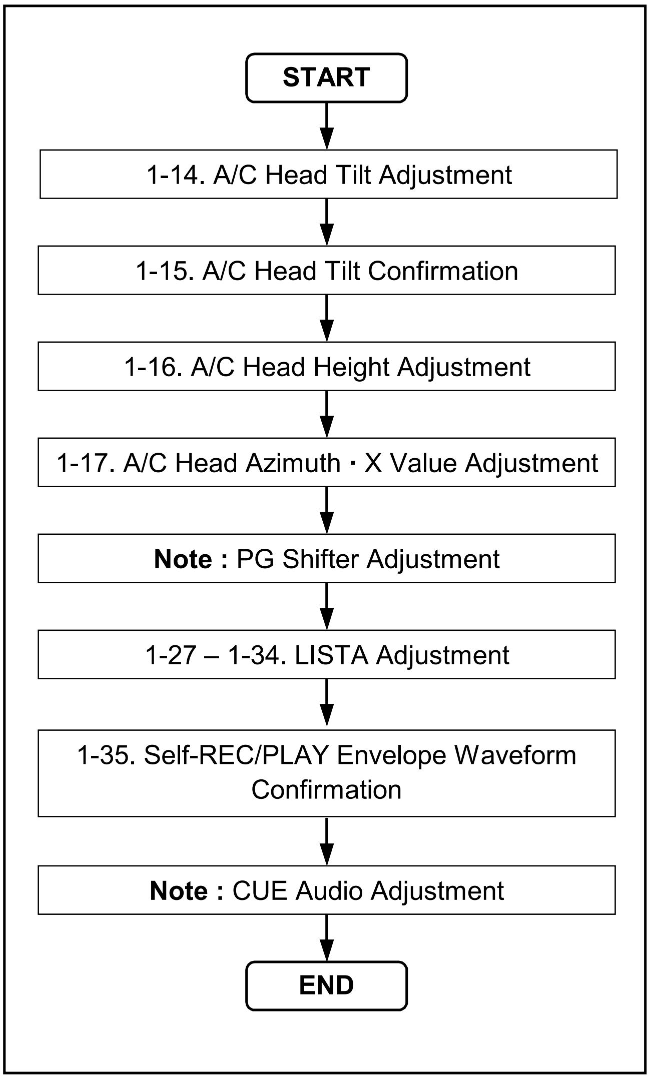


Fig. 2-7-2

< A/C Head Adjustment >

1. Necessary adjustments and confirmation items after replacement of A/C Head Unit is shown in the below flow chart.


START
1-14. A/C Head Tilt Adjustment
1-15. A/C Head Tilt Confirmation
1-16. A/C Head Height Adjustment
1-17. A/C Head Azimuth · X Value Adjustment
Note : PG Shifter Adjustment
1-27 – 1-34. LISTA Adjustment
1-35. Self-REC/PLAY Envelope Waveform Confirmation
Note : CUE Audio Adjustment
END

Note : The PG Shifter and CUE Audio Adjustment Procedures have been introduced in the “Electrical Adjustment Procedures Section”.

2-8. Replacement and Adjustment of Cleaner Solenoid Unit

(Removal)

1. Disconnect the connector P414 on the MECHA I/F Board. (Rear side of the Mechanical Chassis)
2. Unscrew the 2 screws (A) as shown in Fig. 2-8-1 and remove the Cleaner Solenoid Unit.
3. Unscrew the 2 screws (B) as shown in Fig. 2-8-1 and 2-8-2 and remove the Cleaner Shield Case.
4. Unscrew the 2 screws (C) as shown in Fig. 2-8-2 and remove the Silencer Spring from the Cleaner Solenoid Unit.

(Installation)

1. Install the new Cleaner Solenoid Unit in the reverse steps of the removal.
2. Perform the Position Adjustment of the Cleaner Solenoid at the installation. (Refer to the paragraph 2-2. “Replacement of Cleaning Arm Unit”)

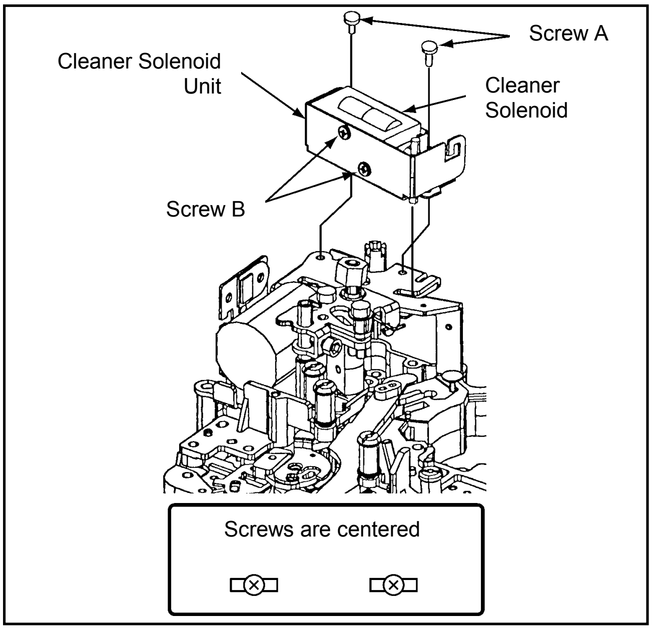

Screw A
Cleaner Solenoid Unit
Cleaner Solenoid
Screw B
Screws are centered

Fig. 2-8-1

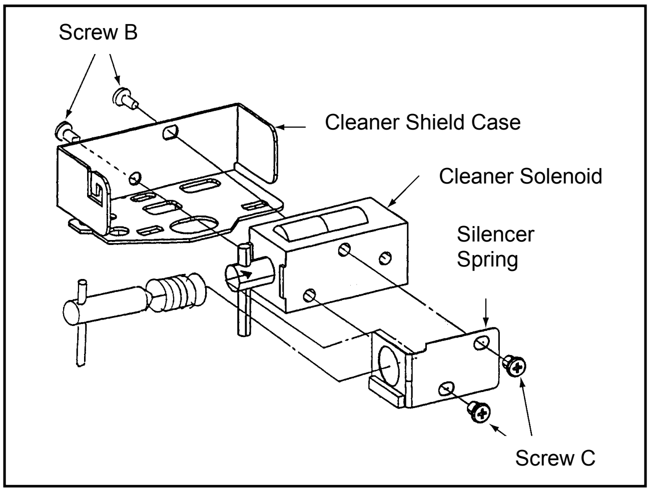

Screw B
Cleaner Shield Case
Cleaner Solenoid
Silencer Spring
Screw C

Fig. 2-8-2

2-9. Mode SW Unit Replacement

(Removal)

1. Confirm that the unit is in the unloading complete position.
2. Remove the cleaner solenoid unit. (Refer to 2-8)
3. Disconnect the connectors on the Mech. I/F board.
4. Remove the spring on the cleaner arm unit.
5. Unscrew 3 screws A, and the Motor Bracket Unit. (Fig.2-9-1)
6. Unscrew the 2 screws B, and the Mode SW Unit.

(Installation)

1. Install a new Mode SW Unit in the reverse steps of the removal.
2. The pin at the bottom of the Mode SW should be put into the hole of the Main Cam Gear. (Fig.2-9-1 and 2-9-2)

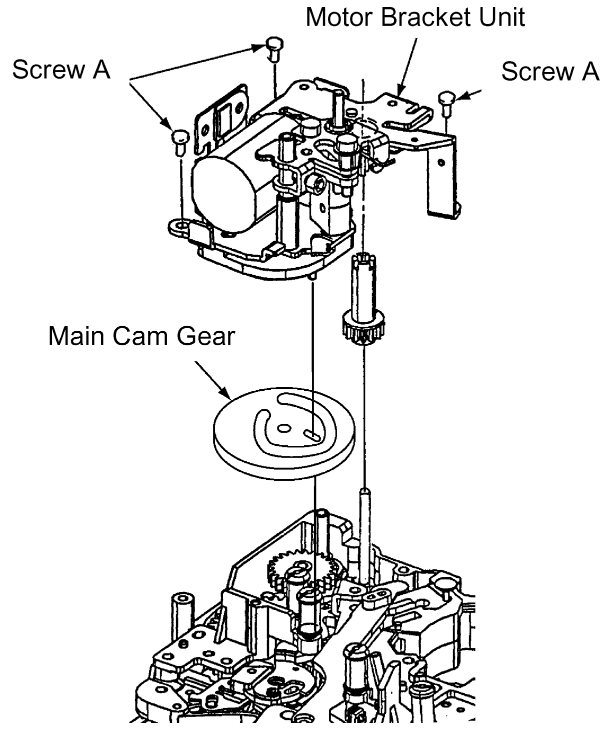

Motor Bracket Unit
Screw A
Screw A
Main Cam Gear

Fig.2-9-1

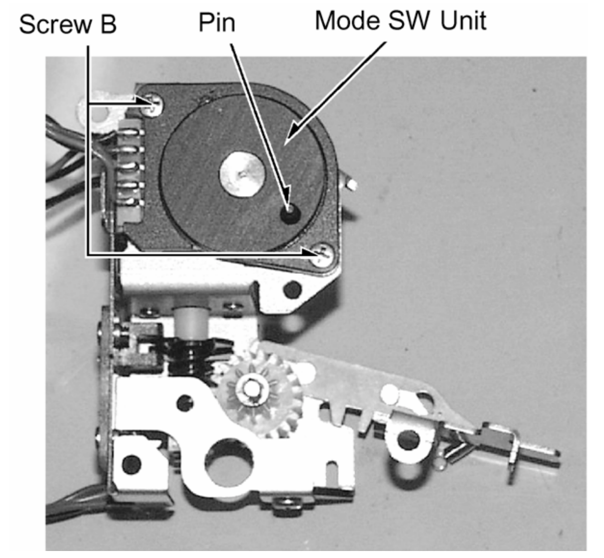

Screw B
Pin
Mode SW Unit

Fig.2-9-2

2-10. Main Cam Gear Replacement

(Removal)

1. Remove the Cleaner Solenoid. (Refer to 2-8)
2. Remove the Motor Bracket Unit. (Refer to 2-9)
3. Turn the Cam Relay Gear B counterclockwise to place the mech. in the loading complete mode. (Fig.2-10-1)
4. Remove the Loading Guide. (Refer to 2-13)
5. Remove the S Loading Arm Unit. (Refer to 2-13)
6. Remove the S4 Post Base Unit. (Refer to 2-11)
7. Remove the Cut Washer A and the Cam Relay Gear B. (Fig.2-10-1)
8. Remove the Cut Washer B and the Cam Relay Gear A.
9. Remove the Cut Washer C and the S Load Sector Gear Unit.
10. Remove the Cut Washer D and the S Relay Gear.
11. Remove the Cut Washer E and the Main Cam Gear.

(Installation)

1. Install a new Main Cam Gear in the reverse steps of the removal.
2. Make sure that the pin of the Mode SW and the hole of the Main Cam Gear are geared upon mounting the Motor Bracket.

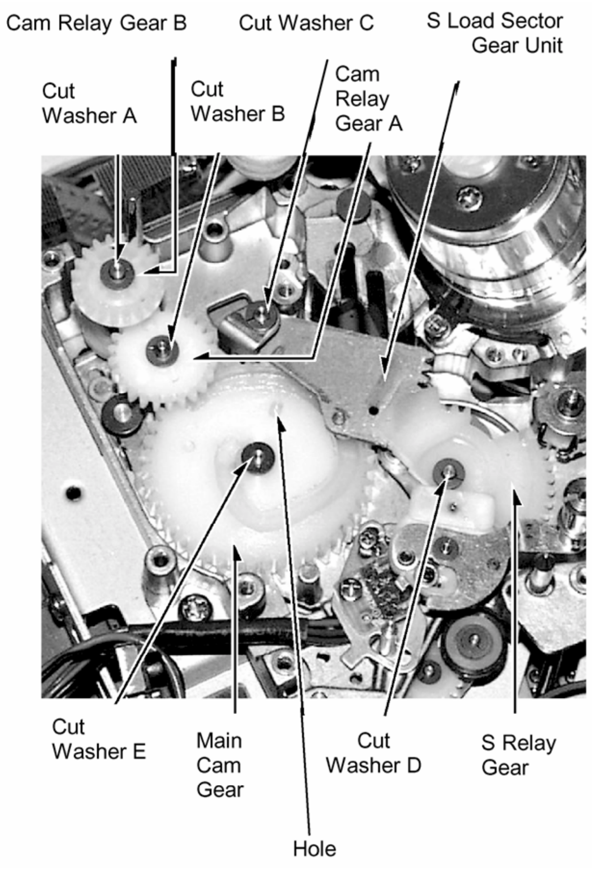

Cam Relay Gear B
Cut Washer C
S Load Sector Gear Unit
Cut Washer A
Cut Washer B
Cam Relay Gear A
Cut Washer E
Main Cam Gear
Cut Washer D
S Relay Gear
Hole

Fig.2-10-1

2-11. S4 Post Base Unit Replacement

(Removal)

1. Remove the 2 screws A and the S4 Post Base Unit. (Fig.2-11-1)

(Installation)

1. Install a new S4 Post Base Unit in the reverse steps of the removal.
2. The post height pre-adjustment and Linearity adjustment are required.

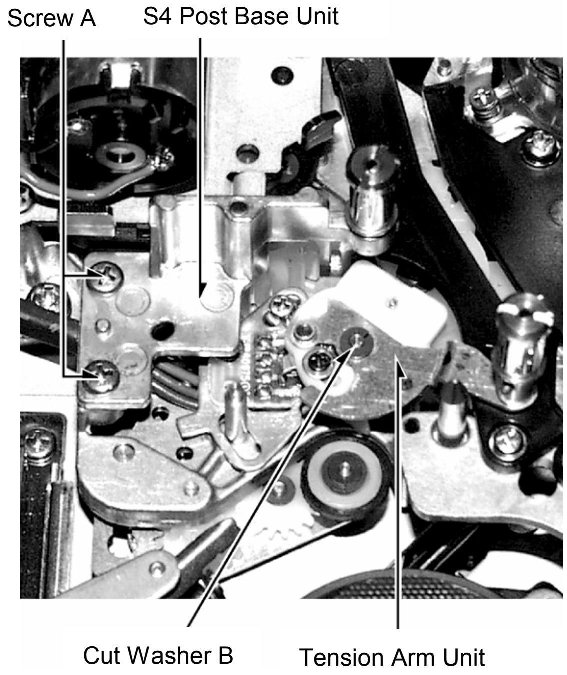

Screw A
S4 Post Base Unit
Cut Washer B
Tension Arm Unit

Fig.2-11-1

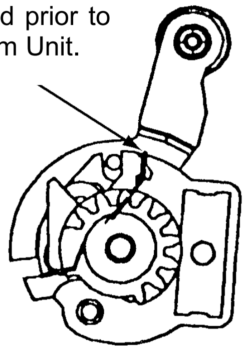
2-12. Tension Arm Unit Replacement

(Removal)

1. Remove the S4 Post Base Unit.
2. Remove the cut washer B and the tension spring. (Fig.2-11-1)
3. Remove the Tension Arm Unit.

(Installation)

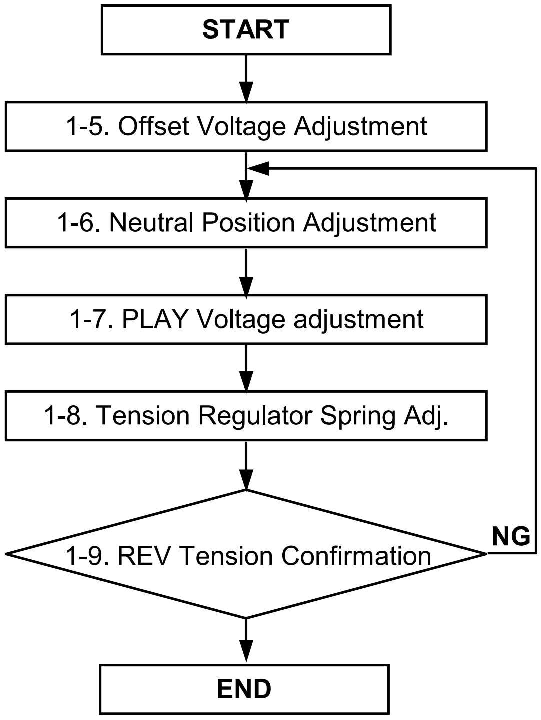
1. Install a new Tension Arm Unit in the reverse steps of the removal. The spring must be fixed prior to installing the Tension Arm Unit.
2. The Tension Arm Adjustment is required. (See the flowchart below.)



The spring must be fixed prior to installing the Tension Arm Unit.

Fig.2-12-1

<Tension Arm Adjustment Flowchart>


START
1-5. Offset Voltage Adjustment
1-6. Neutral Position Adjustment
1-7. PLAY Voltage adjustment
1-8. Tension Regulator Spring Adj.
1-9. REV Tension Confirmation
NG
END

2-13. S Loading Unit Replacement

(Removal)

1. Remove the Cleaner Solenoid unit. (Refer to 2-8)
2. Remove the Motor Bracket Unit. (Refer to 2-9)
3. Turn the Cam Relay Gear (B) counterclockwise to place the unit in the loading complete condition. (Fig.2-13-1)
4. Unscrew the 4 screws A and 2 screws B, then the loading guide. (Fig.2-13-1)
5. Turn the Cam Relay Gear (B) clockwise to return the unit in the unloading complete condition.
6. Remove the Cut Washer C and a washer, and then the S Loading Unit. (Fig.2-13-2)

(Installation)

1. Install a new S Loading Unit in the reverse steps of the removal.
2. The hole D of the S Loading Unit and the hole E of the S Sector Gear should be geared each other.

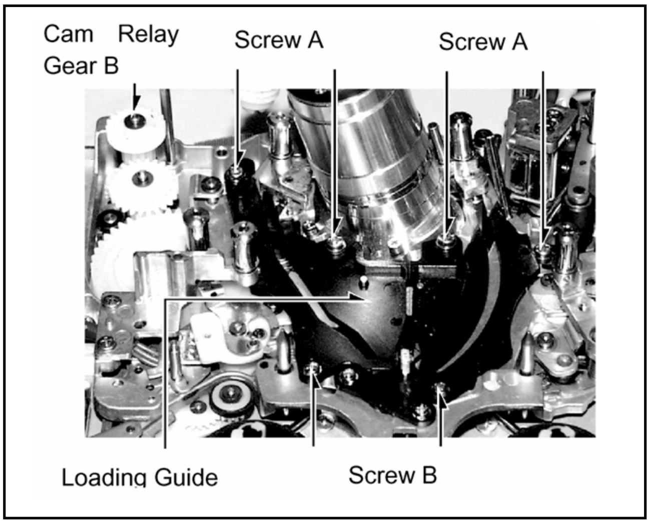

Cam Relay Gear B
Screw A
Screw A
Loading Guide
Screw B

Fig.2-13-1

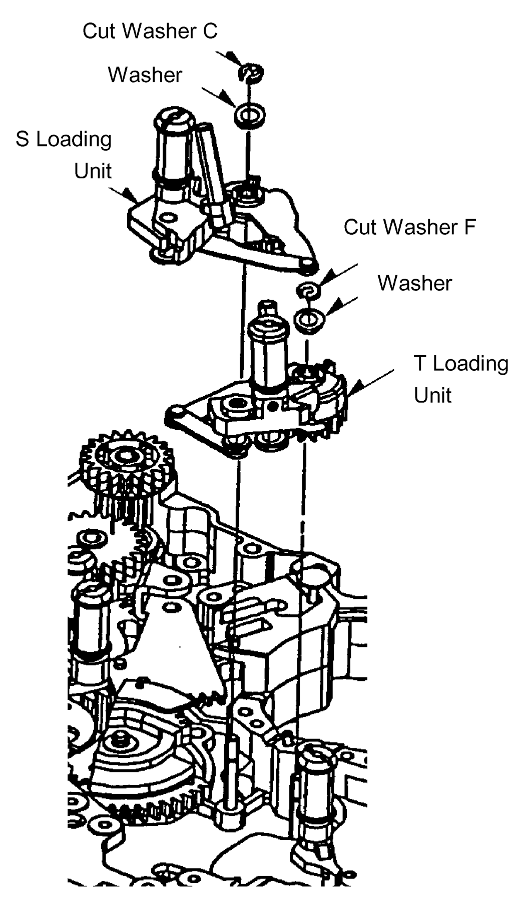

Cut Washer C
Washer
S Loading Unit
Cut Washer F
Washer
T Loading Unit

Fig.2-13-2

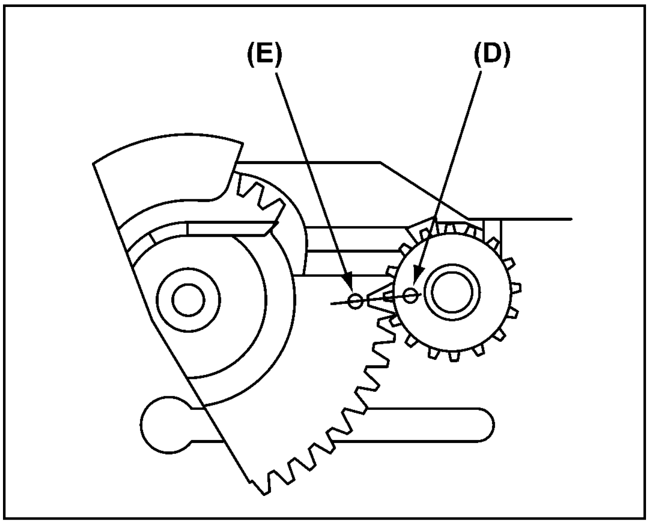


Fig.2-13-3

2-14. T Loading Unit Replacement

(Removal)

1. Remove the S Loading Arm Unit. (Refer to 2-13)
2. Remove the Cut Washer F and a Washer to remove the T Loading Unit. (Fig.2-13-2)

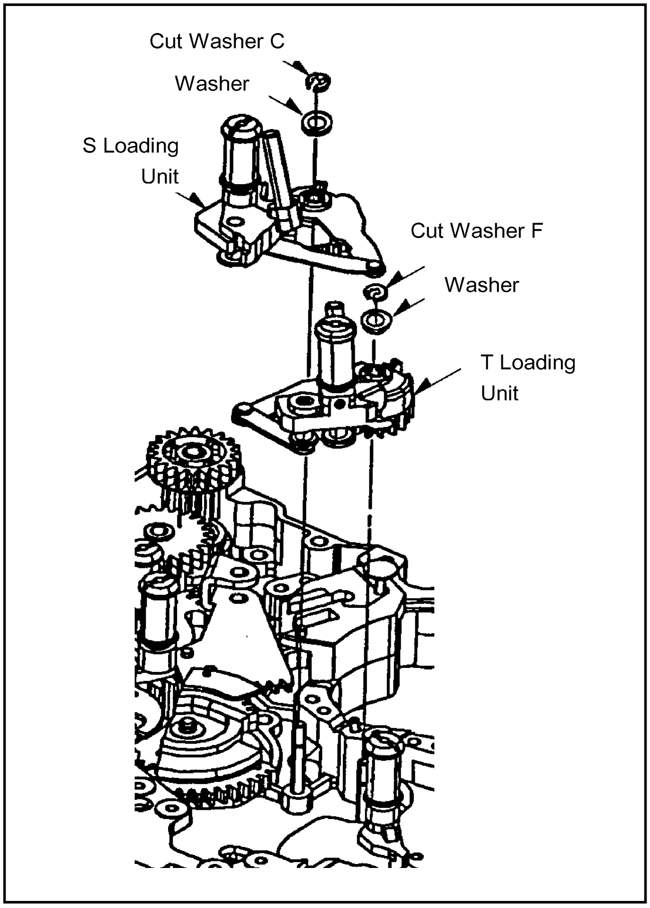

Cut Washer C
Washer
S Loading Unit
Cut Washer F
Washer
T Loading Unit

Fig. 2-14-1

(Installation)

1. Install a new T Loading Unit in the reverse steps of the removal.
2. The hole (G) and (H) should be geared. (Fig.2-14-2)

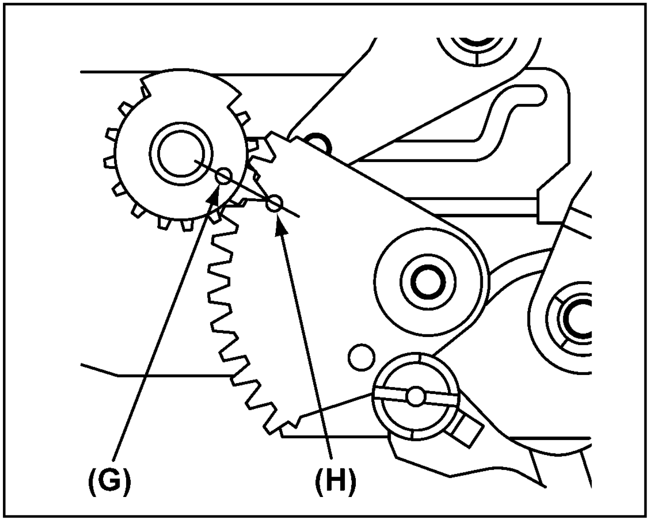


Fig.2-14-2

2-15. T6 Arm Unit Replacement

(Removal)

1. Remove the Cut Washer A and a Washer to remove the T6 Arm Unit. (Fig.2-15-1)

(Installation)

1. Install a new T6 Arm Unit in the reverse steps of the removal.
2. The Post Height Pre-adjustment and the Linearity Adjustment are required.

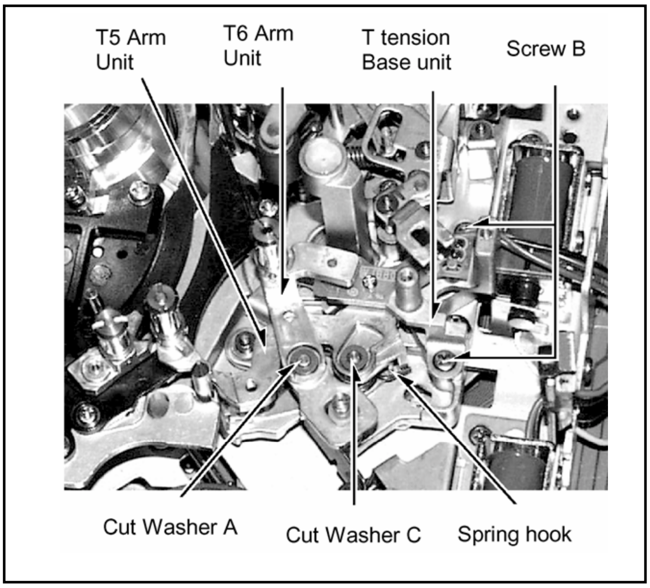

T5 Arm Unit
T6 Arm Unit
T tension Base unit
Screw B
Cut Washer A
Cut Washer C
Spring hook

Fig.2-15-1

2-16. T5 Arm Unit Replacement

(Removal)

1. Remove the T6 Arm Unit. (Refer to 2-15)
2. Remove the Pinch Solenoid Unit. (Refer to 2-4)
3. Unscrew the 2 screws B, and the T Tension Base Unit. (Fig.2-15-1)
4. Remove the Cut Washer C and a Washer to remove the T5 Arm Unit. (Fig.2-15-1)

(Installation)

1. Install a new T5 Arm Unit in the reverse steps of the removal. Make sure the position where the spring hooks.
2. The Post Height Pre-adjustment and the Linearity Adjustment are required.

2-17. Supply & Take-up Reel Rotor Replacement

(Removal)

1. Disconnect the flexible cable which is connected to P34 and P35 on the Mech. I/F Board (back side of the Mechanism unit).
2. Confirm that the iron core of the Supply and Take-up Brake Solenoid are not pressed.
3. Confirm that the Reel Table is positioned M-Cassette, release the M Stopper by pressing the iron core of the M Stopper Solenoid.
4. Unscrew the 2 screws (A) on the outer rail. When unscrew, insert the driver to the Hole (C) as shown in figure 2-17-1.
5. Unscrew the 2 screws (B) as shown in figure 2-17-1.
6. The Rotor Unit is hooked at inner rail. Remove the Supply and Take-up Rotor Unit that never touch to the Brake Release Arm.

NOTE: When remove the Reel Rotor Unit, memorized the groove position of Reel Base, which inserted the pin of Drive Arm Unit.

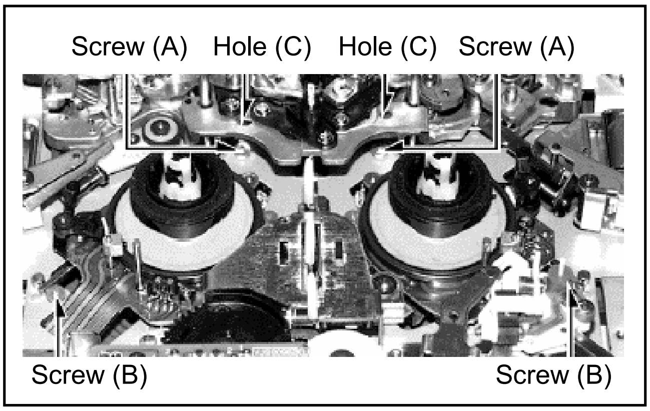


Fig.2-17-1

(Installation)

1. Install the new Supply and Take-up Reel Rotor Unit to the outer rail.
2. Hang on the Reel Rotor Unit to inner rail and install the Reel Rotor Unit then the pin of Drive Arm Unit should be matched with groove position of Reel Base as shown in Figure 2-17-2.
3. Fix the outer rail by Screw (A) and Screw (B).
4. Confirm that the Reel Table Unit moving smoothly on the Rail by hand.
5. Move the Reel Rotor Unit to front side by hand and then pull up the iron core of M stopper solenoid.
6. Confirm the Main Brake Torque. (Refer to the item "Main Brake Torque Confirmation".)
7. Connect the flexible cable to P34 and P35 on the P.C.Board.
8. Adjust the Supply Motor Torque Offset Value. (Refer to the "Sec.5 Electrical Adjustment".)
9. Adjust the Take-up Motor Torque Offset Value. (Refer to the "Sec.5 Electrical Adjustment".)
10. Confirm the Tape Tension Value on playback mode.

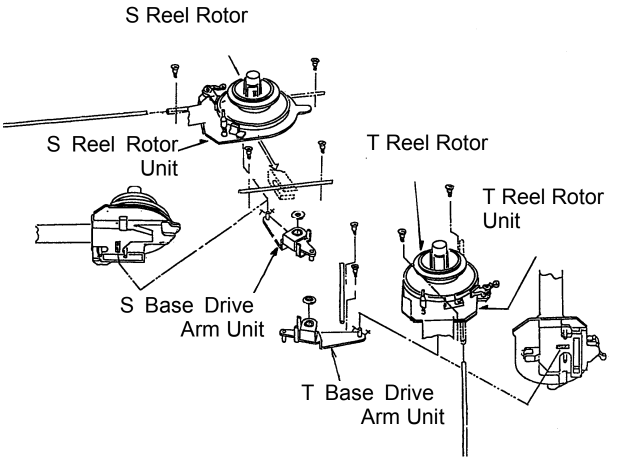


Fig.2-17-2

2-18. Main Brake Torque Confirmation

TP	S Reel, T Reel
MODE	EJECT (POWER OFF)
TOOLS	Dial Torque Gauge (VFK1191A) Torque Gauge Adaptor (VFK1152)
SPEC.	Direction A : 0.4cNm ± 0.2cN·m (20gf·cm ± 10gfcm) Direction B : 0.2cNm ± 0.1cN·m (20gf·cm ±10gfcm)

1. Attach the adaptor (VFK1152) to the gauge (VFK1191A)
2. The following procedure is common for both S and T reels.
3. Push the core of the solenoid away from the reel, and pull it back to contact the reel.
4. Put the torque gauge on the reel, and turn the gauge to the direction A until the brake starts slipping against the reel.
5. Measure the torque under the condition above, and confirm that it is in specification.
6. Remove the gauge once and push the core of the solenoid away from the reel.
7. Pull the core of the solenoid back to contact the reel, and put the gauge again on the reel.
8. Turn the gauge to the direction B until the brake starts slipping against the reel.
9. Measure the torque under the condition above, and confirm that it is in the specification.

Note: When measuring the brake torque, perform the Above step 3 at the first.

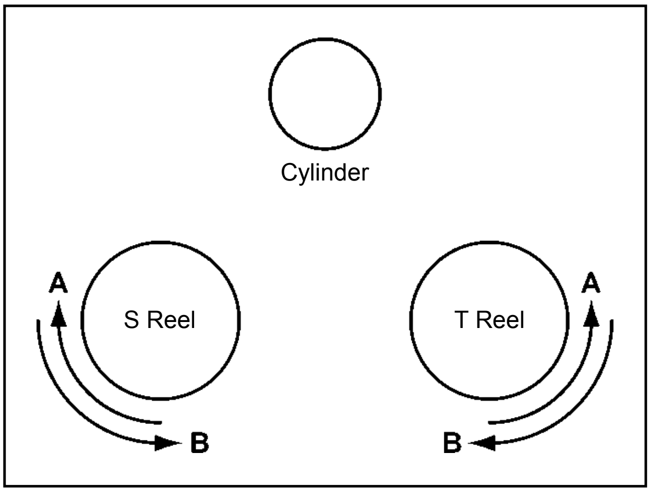


Fig.2-18-1

2-19. Supply & Take-up Brake Arm Unit Replacement

(Removal)

1. Release the brake by pressing the iron core of the Supply and Take-up Brake Solenoid.
2. Remove the 2 Cut Washers (A) as shown in figure 2-19, and remove the Supply and Take-up Brake Arm Unit.

(Installation)

1. Install the new Supply and Take-up Brake Arm Unit follow the removal steps in reverse order.

NOTE: Hook up the Brake Arm Spring as shown below figure.

2. After installation, please perform the “Main Brake Torque Confirmation”. (Refer to the item “2-18. Main Brake Torque Confirmation”.)

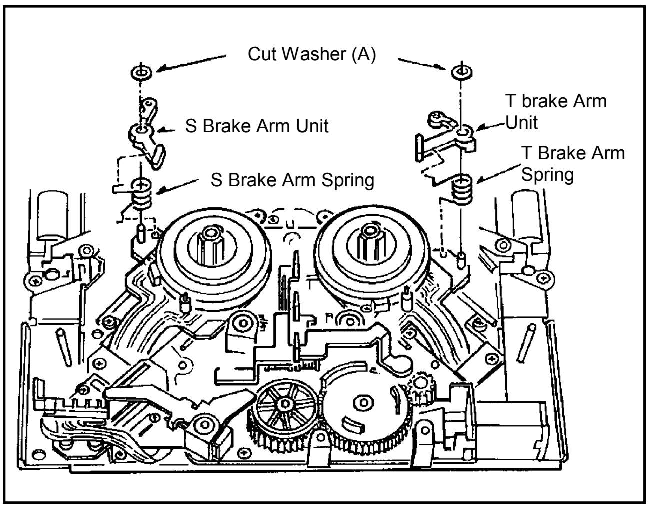


Fig.2-19-1

2-20. S-Brake Solenoid Replacement & Adjustment

(Removal)

1. Disconnect the connector P15 on the Mech.I/F Board.
2. Unscrew the 2 screws (A), and remove Supply Brake Solenoid Base Unit as shown in Figure 2-20-1.
3. Unscrew the 2 screws (B), and remove Supply Brake Solenoid as shown in Figure 2-20-1.

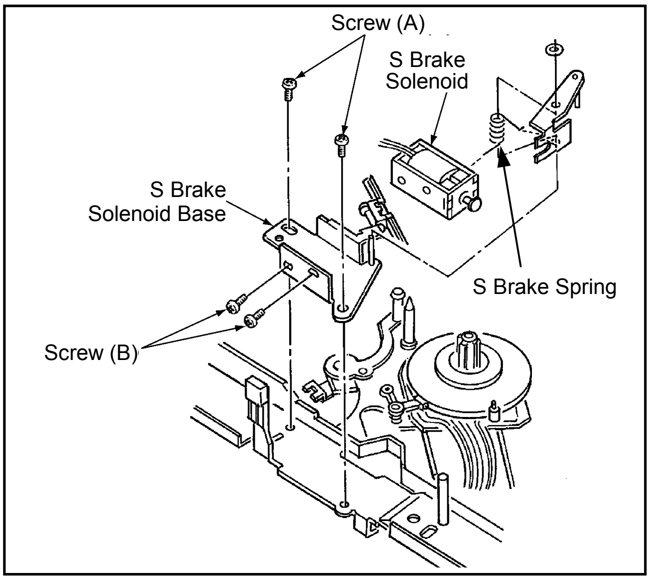


Fig.2-20-1

(Installation)

1. Install the Supply Brake Solenoid in the reverse steps of the removal.
2. After installation, adjust the Solenoid Position Adjustment.

<Solenoid Position Adjustment>

1. Make sure that the position of the reels is in the M cassette position. If not, make it in the M cassette position.
2. Confirm that the gap (A) between brake pad and reel is more than 0.2mm as shown in figure 2-20-2.
3. If the gap (A) is out of specification, loosen the 2 screws (A) and shift the brake solenoid so that the gap (A) is within specification. After the adjustment, tighten the screws (A)
4. Make the reel position in S and L cassette positions, and confirm that the gap (A) is more than 0.2mm at each reel position as shown.

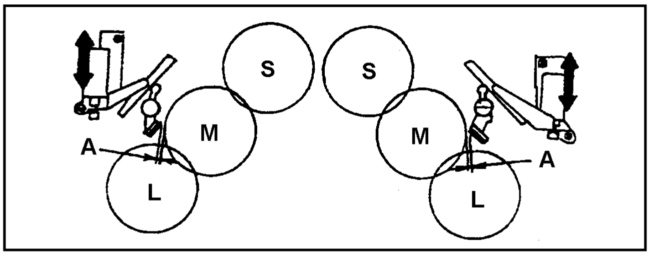


Fig.2-20-2

2-21. T-Brake Solenoid Replacement & Adjustment

(Removal)

1. Disconnect the connector P18 on the Mech. I/F Board.
2. Unscrew the 2 screws A, and remove Take-up Brake Solenoid Base Unit as shown in Figure 2-21-1.
3. Unscrew the 2 screws B, and remove Take-up Brake Solenoid as shown in Figure 2-21-1.

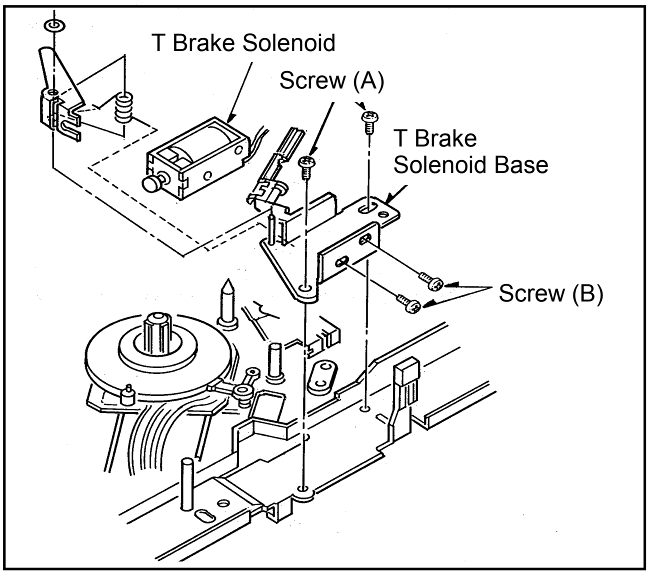


Fig.2-21-1

(Installation)

1. Install a new Reel Motor Unit in the reverse steps of the removal.

<Solenoid Position Adjustment>

1. The position adjustment is same procedures as the Supply Reel Table side
   (Refer to the figures 2-20-1 and Fig. 2-20-2)

2-22. Reel Motor Unit Replacement

(Removal)

1. Remove the connector P16 on the Mech. I/F Board. (Fig.2-22-1)
2. Unscrew the 3 screws A, and remove the cover unit (Fig.2-22-1)
3. Unscrew the 2 screws B, and remove the reel motor unit. (Fig.2-22-1)

(Installation)

1. Install a new Reel Motor Unit in the reverse steps of the removal.

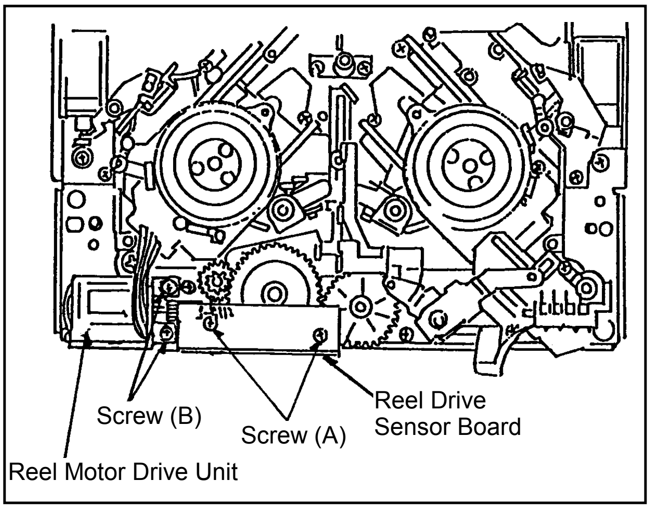

Screw (B)
Screw (A)
Reel Drive Sensor Board
Reel Motor Drive Unit

Fig.2-22-1

2-23. Distinction SW Unit Replacement

(Removal)

1. Remove the connector P17 on the backside of the Mech. I/F board.
2. Remove the spring on the Distinction SW Unit.
3. Remove the 3 screws A and the Distinction SW Unit. (Fig. 2-23-1)

(Installation)

1. Install a new Distinction SW Unit and the spring in the reverse steps of the removal.
2. Confirm that both M and L size cassette touch the Distinction SW Unit.

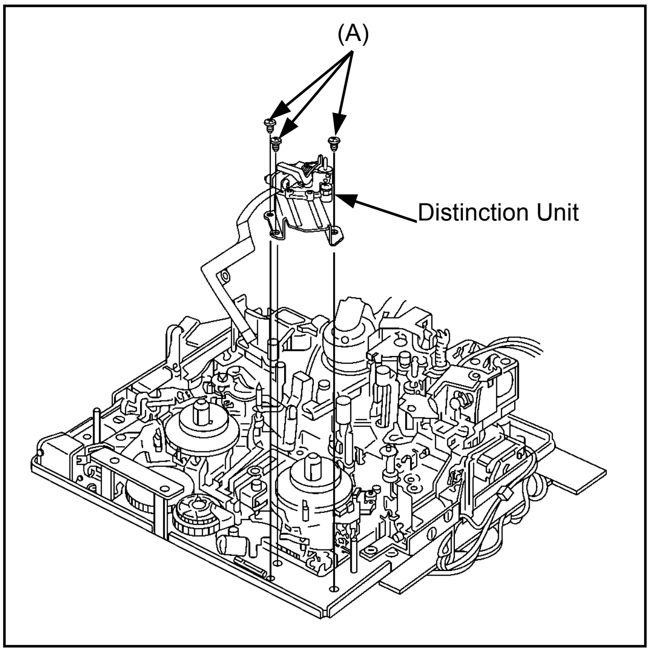

(A)
Distinction Unit

Fig.2-23-1

2-24. M Stopper Solenoid Unit Replace & Adjustment

(Removal)

1. Remove the connector P24 on the backside of the Mech. I/F board.
2. Remove the Pinch Solenoid Unit. (Refer to the Pinch Solenoid Replacement procedure.)
3. Remove the T Tension Base Unit. (Refer to the T5 Arm Unit Replacement Procedure.)
4. Remove the 4 screws A and B, and then the solenoid. (Fig. 2-24-1)

(Installation)

1. Install a new solenoid in the reverse steps of the removal.
2. The following position adjustment is required.

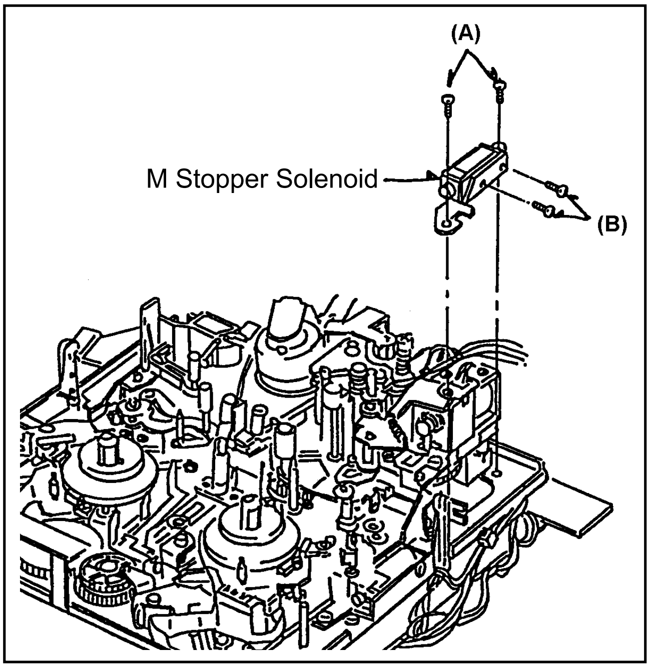


Fig.2-24-1

(Adjustment)

1. Place the reel in the L cassette position.
2. Press the core of the solenoid to release the M stopper.
3. Loosen the screw A and adjust the solenoid position so that the gap between the Mech. Chassis and the M stopper is 1.1 to 1.3mm. (Fig. 2-24-2)
4. Tighten the screw A after the adjustment

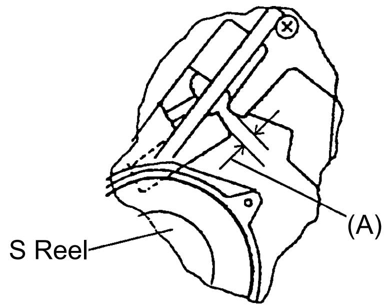
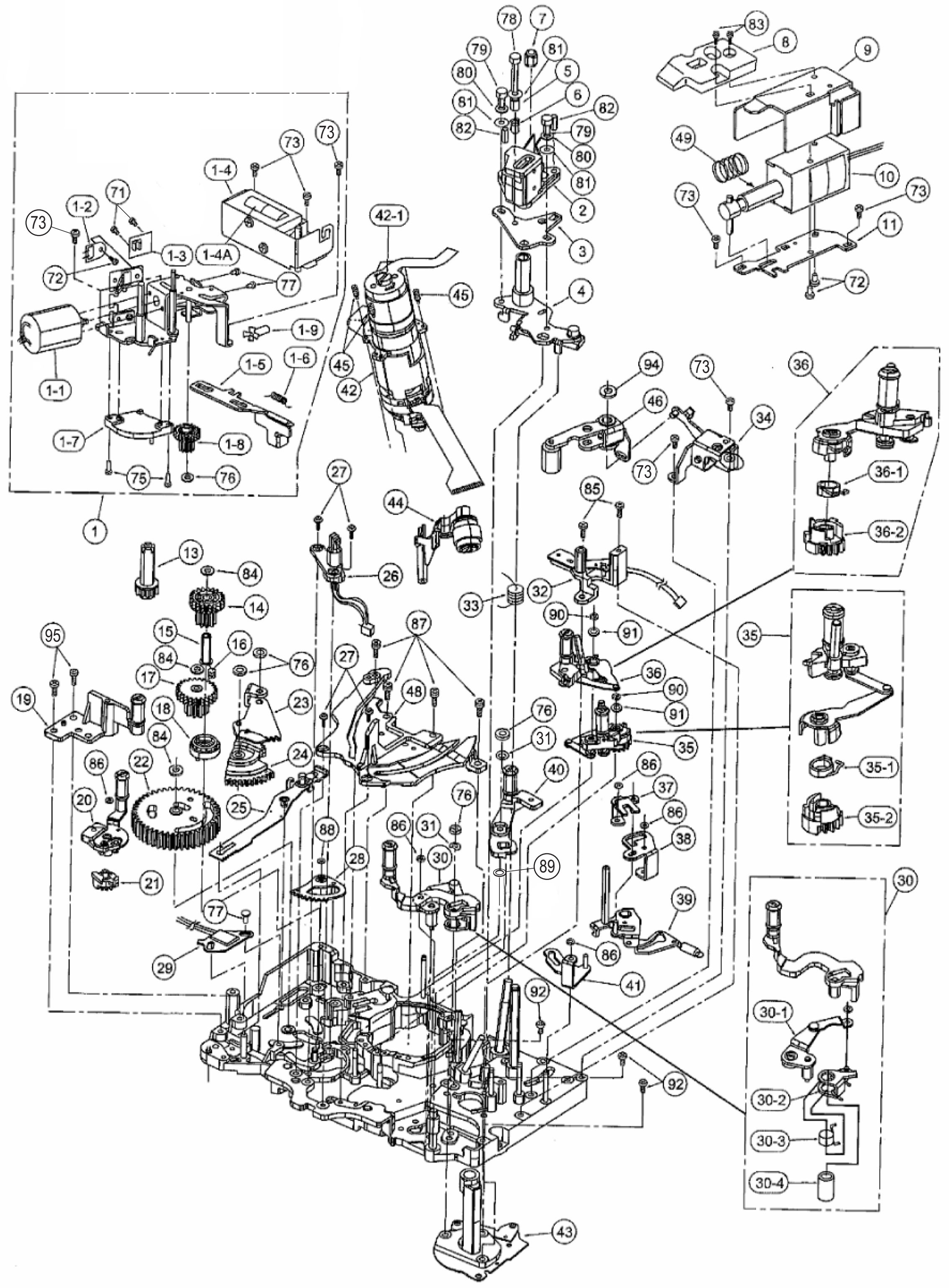


Fig.2-24-2

MECHANICAL CHASSIS ASSEMBLY (1)



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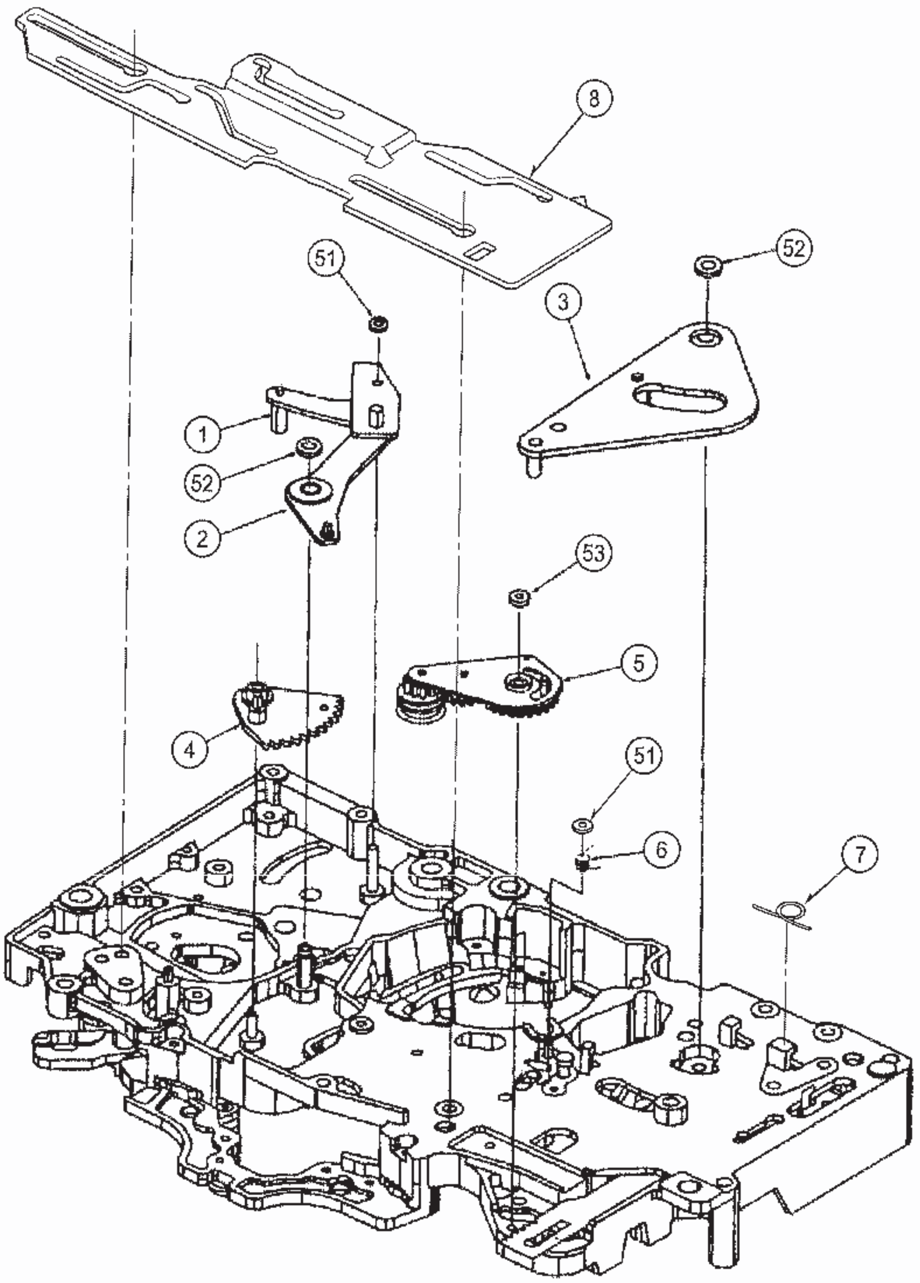
MECHANICAL CHASSIS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA7038	MOTOR BRACKET	1	
1-1	VEM0726	MOTOR ASS'Y	1	(M)
1-2	VEK7927	DEW SENSOR	1	EYHS77Y7
1-3	VEK8982	FG SENSOR	1	
1-4	VXA6656	CLEANER SOLENOID ASS'Y	1	
1-4A	VSJ0226	CLEANER SOLENOID	1	(M)
1-5	VMM0441	CLEANER ROD	1	
1-6	VMB3454	CLEANER SPRING	1	
1-7	VES0925	MODE SW ASS'Y	1	(M)
1-8	VDG1426	WORM WHEEL	1	
1-9	VXP2029	WORM	1	
2	VED0466	A/C HEAD 1 ASS'Y	1	(M)
3	VMA0F40	HORIZONTAL FIX BASE	1	
4	VXA6658	HIGHT FIX BASE	1	
5	VMS5987	AZIMUTH SLEEVE	1	
6	VMB2937	A/C HEAD ADJUST SPRING	1	
7	VHD0045	NYLON NUT	1	
8	VMA0F93	CABLE GUIDE	1	
9	VMA0E98	SOLENOIDE ANGLE	1	
10	VSJ0227	PINCH SOLENOID	1	(M)
11	VMA0E90	SOLENOID BASE	1	
13	VDG1434	EM GEAR	1	
14	VDG1437	CAM CONNECTION GEAR B	1	
15	VMX2993	EM SLEEVE	1	
16	VMB3440	EM GEAR SPRING	1	
17	VDG1423	CAM CONNECTION GEAR A	1	
18	VXP2037	EMARGENCY CONNECTION GEAR	1	
19	VXA7523	S4 POST BASE ASS'Y	1	(M)
20	VXL3165	S TENSION ARM ASS'Y	1	(M)
21	VDG1438	TENSION LEG GEAR	1	
22	VDG1424	MAIN CAM GEAR	1	(M)
23	VXA6647	S LOAD SECTOR GEAR	1	
24	VDG1422	S CONNECTION GEAR	1	
25	VXA6717	EM ROD ASS'Y	1	
26	VEK8936	LED ASS'Y	1	
27	LMHD16064	SCREW	4	
28	VXA6700	TENSION LEG SECTOR GEAR	1	
29	VXA6644	TENSION SENSOR ASS'Y	1	
30	VXL3164	T5 ARM ASS'Y	1	(M)
30-1	VXL2989	T5 DRIVE LEVER A	1	
30-2	VXL2991	T5 DRIVE LEVER B	1	
30-3	VMB3436	T5 CHARGE SPRING	1	
30-4	VMX2982	T5 ARM SLEEVE	1	
31	VMB3418	T5 THRUST SPRING	2	
32	VMD3910	TENSION BASE	1	
33	VMB3434	A/C HIGHT SPRING	1	
34	VXA6703	PINCH ELEVATOR ASS'Y	1	
35	VXA7886	T LOADING ASS'Y	1	(M)
35-1	VMB3426	T LOADING SPRING	1	
35-2	VDG1428	T LOADING GEAR	1	
36	VXA7885	S LOADING ASS'Y	1	(M)
36-1	VMB3425	S LOADING SPRING	1	
36-2	VDG1427	S LOADING GEAR	1	
37	VXL3008	SOLENOID TURN ARM	1	
38	VML3520	SLENOID CONNECTION ARM	1	
39	VXL3002	PINCH TURN ARM	1	
40	VXL3163	T6 ARM ASS'Y	1	(M)
41	VXL3011	ELEVATOR DRIVE ASS'Y	1	
42	VEG1655	CYLINDER UNIT	1	(M)
42-1	VMD3885	CAP	1	
43	VEM0717	CAPSTAN ASS'Y	1	(M)
44	VXL3028	CLEANING ARM ASS'Y	1	(M)
45	VXQ0439	SCREW	3	
46	VXL3040	PINCH ARM ASS'Y	1	(M)
48	VMD4544	LOADING SECTOR GEAR ASS'Y	1	
49	VMB2948	SPRING	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
71	XQN2+A3	SCREW	2	
72	XQN2+A2	SCREW	3	
73	XQN2+CF3	SCREW	8	
75	XQN2+A5	SCREW	2	
76	VMX0967	CUT WASHER	5	
77	XQN16+A2	SCREW	3	
78	XVE2B12FP	HEX SCREW	1	
79	XVE2B4FZ	HEX SCREW	2	
80	XWA2B	WASHER	2	
81	XWG2A5	WASHER	3	
82	XXE2A6FP	HEX SCREW	2	
83	XYN2+K5	SCREW	2	
84	VMX1599	CUT WASHER	3	
85	XQN2+CF4	SCREW	2	
86	VMX1061	WASHER	5	
87	XYN2+C5	SCREW	4	
88	VMX2027	CUT WASHER	1	
89	XWGV2Y4G	WASHER	1	
90	XUC12FP	E-RING	2	
91	XWGV15Z32G	WASHER	2	
92	XQN2+B3FZ	SCREW	3	
94	VMX0653	CUT WASHER	1	
95	XYN26+C4	SCREW	2	
*	VXY1842Z1	MECHANIZM ASS'Y	1	(M)

MECHANICAL CHASSIS ASSEMBLY (2)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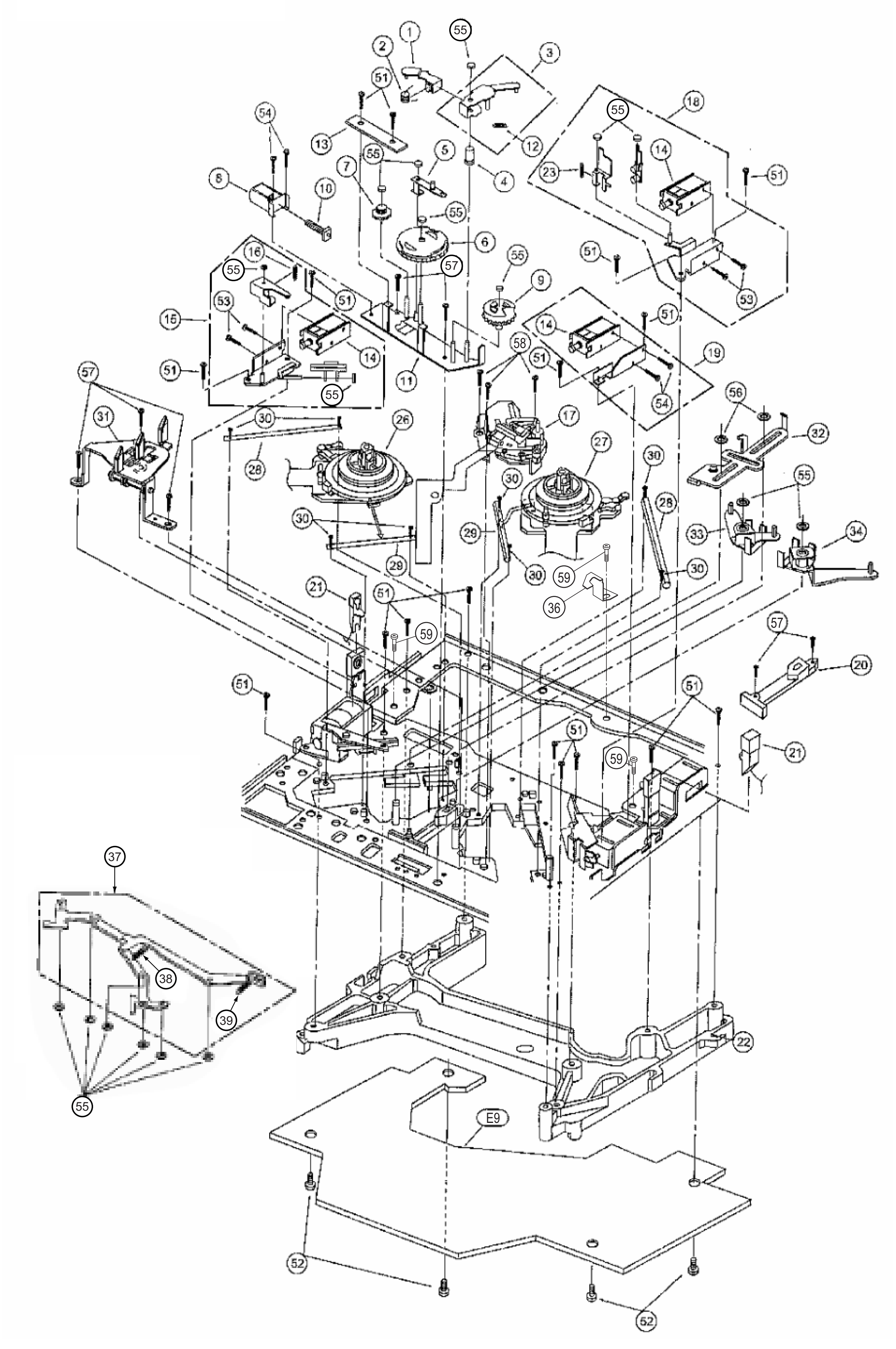
MECHANICAL CHASSIS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL3007	PINCH DRIVE ARM	1	
2	VXL3010	CONNECTION ARM	1	
3	VXL3043	MAIN CAM ARM	1	
4	VXA6649	T ROD SECTOR GEAR	1	
5	VXL3238	IDLER ARM ASS'Y	1	
6	VMB3445	TENSION LEG SECTOR GEAR	1	
7	VMB3453	EM ROD SPRING	1	
8	VMA0E80	MAIN ROD	1	
51	VMX1061	WASHER	2	
52	VMX0967	CUT WASHER	2	
53	VMX2391	CUT WASHER	1	

SUB CHASSIS ASSEMBLY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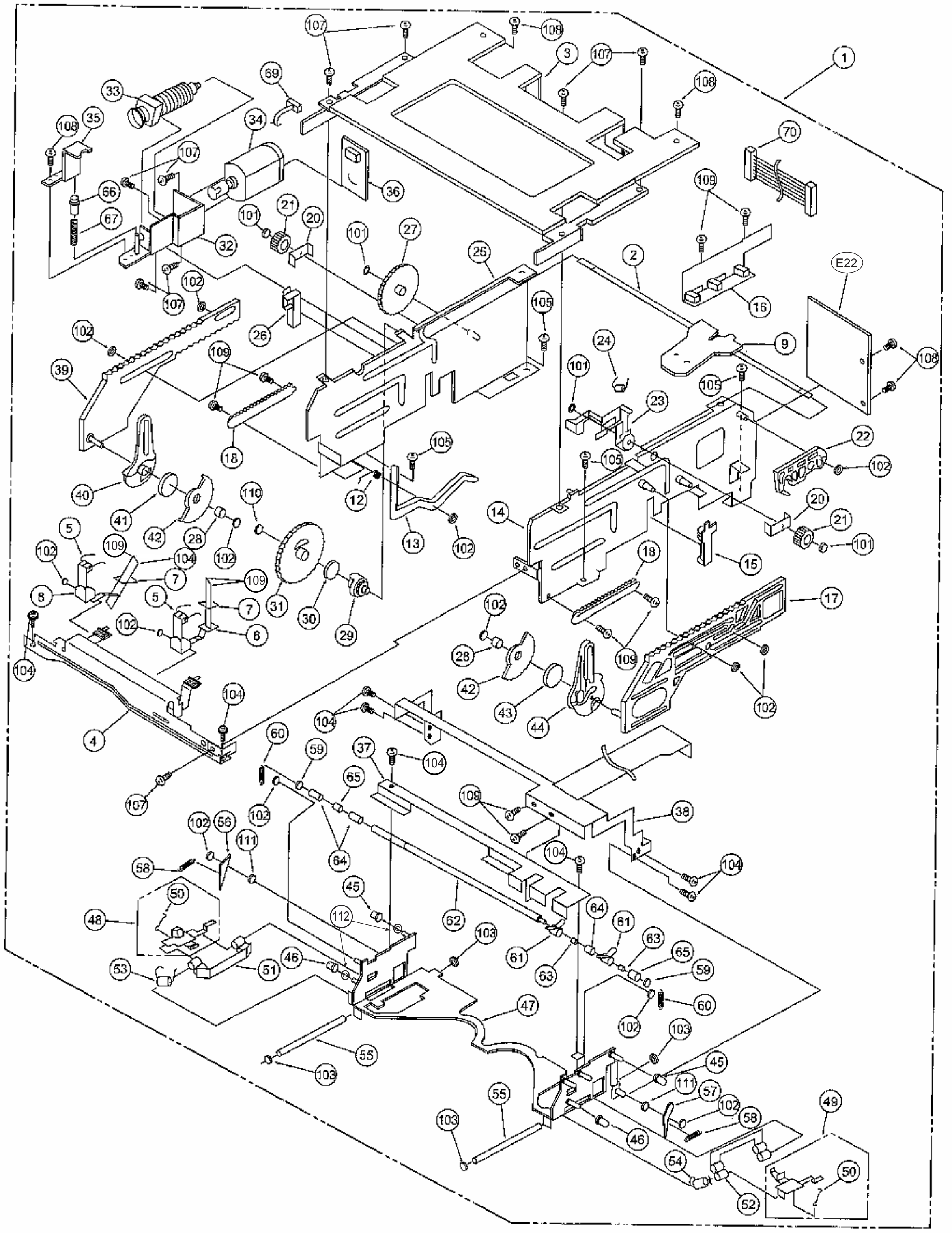
SUB CHASSIS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL2656C	MIC DRIVE ARM A ASS'Y	1	
2	VMB3018	MIC DRIVE SPRING	1	
3	VXL2657	MIC DRIVE ARM B ASS'Y	1	OR VXL2657C
4	VDB1429	MIC DRIVE ARM BOSS	1	
5	VXL2613C	REEL DRIVE ARM ASS'Y	1	
6	VDG1192	REEL DRIVE CAM GEAR	1	
7	VDG1193	REEL DRIVE WORM WHEEL	1	
8	VEM0585C	REEL DRIVE MOTOR ASS'Y	1	(M)
9	VDG1211	MIC GENEVA GEAR	1	
10	VXP1698C	REEL DRIVE WORM ASS'Y	1	OR VXP1698C
11	VXA5628	MOTOR BASE ASS'Y	1	OR VXA5628C
12	VMB3019	MIC DRIVE RETURN SPRING	1	
13	VEK7726C	REEL SENSOR P.C.BOARD	1	
14	VSJ0216	SOLENOID	3	(M)
15	VXA5575C	S-BRAKE SOLENOID BASE ASS'Y	1	OR VXA5575C
16	VMB2957	S BRAKE SPRING	1	
17	VXA7921C	DISTINCTION SW ASS'Y	1	(M)
18	VXA6651	T BRAKE SOLENOID ASS'Y	1	
19	VXA5579C	M STOPPER SOLENOID ASS'Y	1	OR VXA5579C
20	VMD3908	SLIDE ROD STOPPER	1	
21	VEK7692C	SENSOR HOLDER ASS'Y	2	
22	VMA0L40	SUB CHASSIS SUPPORT PLATE	1	
23	VMB2987	T BRAKE SPRING	1	
26	VEM0724	S REEL MOTOR ASS'Y	1	(M)
27	VEM0731	T REEL MOTOR ASS'Y	1	(M)
28	VMS5923	REEL OUTER RAIL	2	
29	VMS5924	REEL INNER RAIL	2	
30	VHD0995	SCREW	8	
31	VXA6650	BRAKE RELEASE ASS'Y	1	
32	VXA6652	SLIDE ROD	1	
33	VXL2980	S BASE DRIVE ARM	1	
34	VXL2981	T BASE DRIVE ARM	1	
36	VMC1652	T1 BOAT GUIDE	1	
37	VXL2982	M STOPPER DRIVE ARM ASS'Y	1	
38	VMB2955	M STOPPER SPRING (1)	1	
39	VMB3439	RELESE SPRING	1	
51	XQN2+CF4	SCREW	17	
52	XYN26+F8	SCREW	4	
53	XQN2+A1.5	SCREW	4	
54	XQN2+A2	SCREW	4	
55	VMX0967	CUT WASHER	17	
56	VMX1079	CUT WASHER	2	
57	XQN2+CF3	SCREW	7	
58	XQN2+AF3	SCREW	3	
59	XYN26+C5	SCREW	3	
E9	VEP82250A	MECHA I/F P.C.BOARD	1	

FRONT LOADING ASSEMBLY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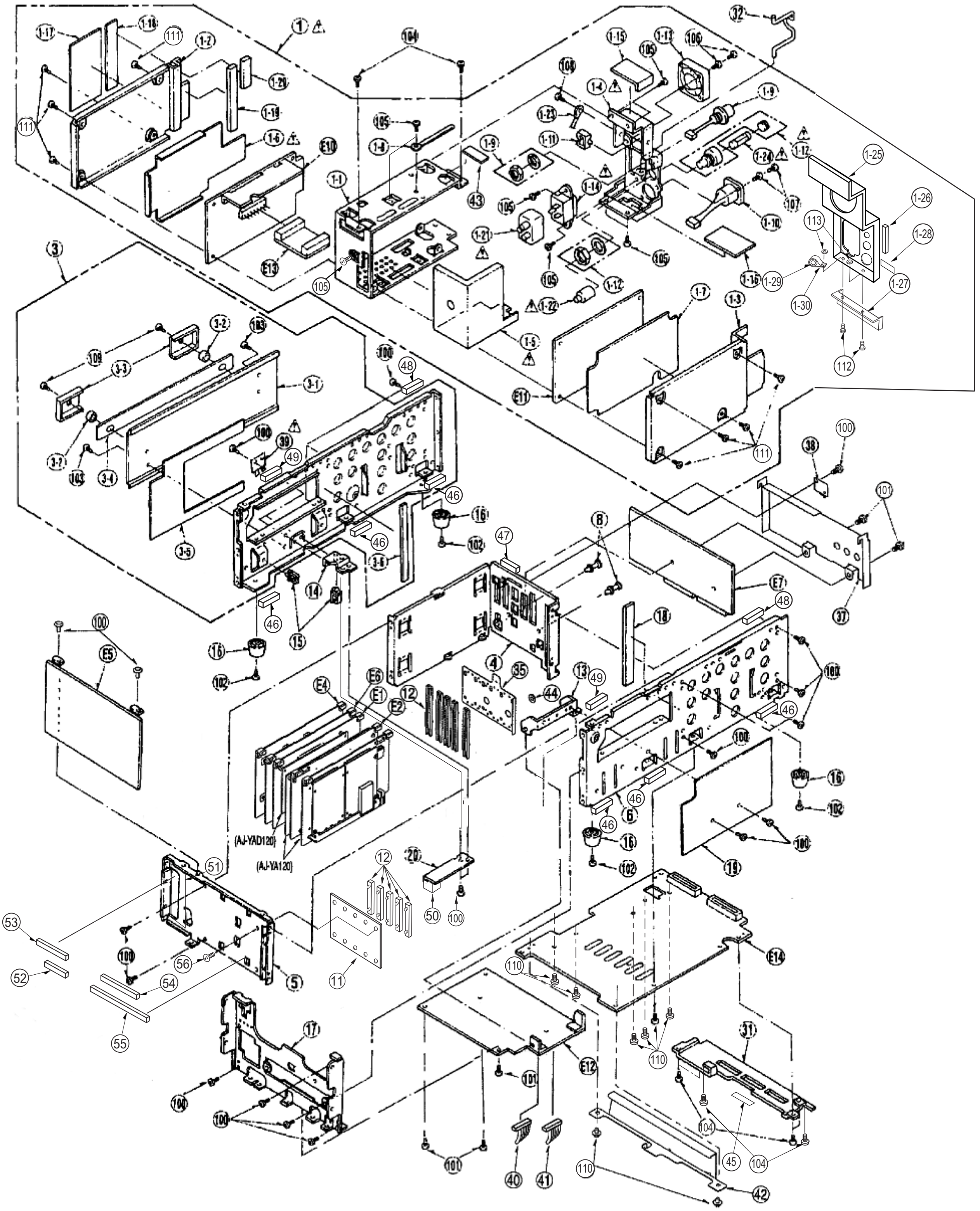
FRONT LOADING ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA7920	FRONT LOADING ASS'Y	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VMA0M72	FRONT GUIDE 1 ASS'Y	1	
5	VMB3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
12	VMB2926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA7355	SIDE PLATE R 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1412	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
24	VMB2979	SPRING	1	
25	VXA7353	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1413	INTERAMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1414	CLUTCH GEAR	1	
30	VMB2980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E.E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P.C.BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML3485	WIPER ARM (R)	1	
41	VMB3391	WIPER ARM (L)	1	
42	VDG1163	WIPER GEAR	2	
43	VMB3390	WIPER SPRING (L)	1	
44	VML3484	WIPER SPRING (R)	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VMB3064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VMB3061	SLIDE GUIDE SPRING L	1	
54	VMB3062	SLIDE GUIDE SPRING R	1	
55	VMS6108	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VMB2928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VMB2927	CASSETTE HOLDER SPRING	2	
61	VMX2833	M-L DETECT ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VMB3253	M-L DETECT SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	2	
66	VDG1246	EMARGENCY GEAR	1	
67	VMB3109	EMARGENCY SPRING	1	
69	VEE9577	CABLE	1	
70	VEE9632	MOTOR CABLE	1	
101	VMX0653	CUT WASHER	4	
102	VMX0967	CUT WASHER	14	
103	VMX1061	WASHER	4	
104	XQN16+A2	SCREW	9	
105	XQN2+CF3	SCREW	4	
107	VHD1323	SCREW	9	
108	XQN2+A3	SCREW	5	
109	LMHD16064	SCREW	11	
110	XUC25FP	E-RING	1	
111	XWGV2Z5G	WASHER	2	
112	XWGV2Z4G	WASHER	2	
E22	VEP80856A	CARRIGE P.C.BOARD	1	

CHASSIS & FRAME ASSEMBLY

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.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CHASSIS FRAME ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VEK0G83	POWER ASS'Y	1	FOR AJ-HD1200AP
⚠ 1	VEK0G99	POWER ASS'Y	1	FOR AJ-HD1200AE/AMC
1-1	VSC4997	POWER CASE (B)	1	
1-2	VSC4858	POWER CASE (D)	1	
1-3	VSC4996	POWER CASE (C)	1	
⚠ 1-4	VSC4986	POWER CASE (A)	1	
⚠ 1-5	VMZ2879	SHIELD SHEET (B)	1	
⚠ 1-6	VMZ2878	SHIELD SHEET (A)	1	
1-7	VMZ2880	SHIELD SHEET (C)	1	
1-8	VJF0469	CLAMPER	1	
1-9	VEE0E65	DC OUT CABLE	1	
1-10	VJP1885	CONNECTOR (MALE)	1	K1AA104H0020
1-11	VJF0285	WIRE LOCKING SADDLE	1	
⚠ 1-12	K3GA1BJ00014	FUSE HOLDER	1	
1-13	L6FAHBBD0001	FAN MOTOR	1	
⚠ 1-14	VJP0083	AC INLET	1	
1-15	VGF0797	DUST PROOF SHEET (A)	1	
1-16	VGF0798	DUST PROOF SHEET (B)	1	
1-17	VGF0799	DUST PROOF SHEET (C)	1	
1-18	VGF0800	DUST PROOF SHEET (D)	1	
1-19	VMT1015	DUST PROOF CUSHION (B)	1	
1-20	VMT1014	DUST PROOF CUSHION (A)	1	
⚠ 1-21	VMZ1252	AC INLET COVER	1	
⚠ 1-22	VMZ2139	FUSE HOLDER COVER	1	
1-23	VEE0F62	AC GND	1	
⚠ 1-24	VSF0106C25H	FUSE	1	
1-25	VMP6063	POWER ANGLE	1	
1-26	VMT0825	GASKET	1	
1-27	VMP6178	POWER SUPPLY COVER	1	
1-28	VGF0808	ANGLE COVER	1	
1-29	VLP0408	CORE	1	FOR AJ-HD1200AE/MC
1-30	VMD3785	CLAMPER	1	FOR AJ-HD1200AE/MC
3	VYH0271	HANDLE ASS'Y	1	
3-1	VGM1569	HANDLE COVER	1	
3-2	VMX2845	HANDLE SPACER	2	
3-3	VMP5938	HANDLE ANGLE	2	
3-4	VKH0388	HANDLE	1	
3-5	VGF0761	DUST PROOF SHEET (A)	1	
3-6	VMT0999	DUST PROOF CUSHION (L)	1	
4	VMP6735	BACK FRAME	1	
5	VMP6734	CENTER FRAME	1	
6	VMP5878	SIDE FRAME (R)	1	
8	VKC0554	MINI CARD SPACER	2	
11	VMP6767	GUIDE RAIL HOLDER PLATE B	1	
12	VGQ1016	GUIDE RAIL	10	
13	VMP5906	P.C.BOARD HOLDER ANGLE	1	
14	VMP5905	P.C.BOARD ANGLE	1	
15	VJF0004	WIRE SADDLE	2	
16	VKA0117	PLASTIC FOOT	4	
17	VMP6830	FRONT FRAME	1	
18	VMT0965	DUST PROOF CUSHION (A)	1	
19	VGF0762	DUST PROOF SHEET (B)	1	
20	VGF0789	DUST PROOF BARRIER	1	
31	VMP5867	BOTTOM FRAME	1	
32	VML2903	AC CORD HOOK	1	
35	VMP8044	GUIDE RAIL HOLDER PLATE A	1	
37	VSC5182	AV I/O SHIELD PLATE	1	
38	VMP6927	AV I/O HOLDER ANGLE	1	
⚠ 39	VMZ2955	POWER SW BARRIER	1	
40	VEE0N31	CABLE	1	
41	VEE0N30	CABLE	1	
42	VSC5635	SHIELD PLATE	1	
43	VGF0808	COVER SHEET	1	
44	VJF0861	BUSHING	1	
45	VMT0798	GASKET	1	FOR AJ-HD1200AE/MC
46	VMT0825	GASKET	6	FOR AJ-HD1200AE/MC
47	VMT0904	GASKET	1	FOR AJ-HD1201AE/MC
48	VMT1227	GASKET	2	
49	VMT1228	GASKET	3	
50	VMT0977	DUST PROOF CUSHION (G)	1	
51	VGF0783	DUST PROOF SHEET (D)	1	
52	VMT0976	DUST PROOF CUSHION (F)	1	
53	VMT1000	DUST PROOF CUSHION (M)	1	
54	VMT1001	DUST PROOF CUSHION (N)	1	
55	VMT1002	DUST PROOF CUSHION (O)	1	
56	VHN0338	NYLON RIVET	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
100	XTV3+6F	SCREW	18	
101	XYE3+EF8FR	SCREW	5	
102	XTV3+10F	SCREW	4	
103	XTV3+6FFZ	SCREW	2	
104	XTV3+6FFR	SCREW	6	
105	XTV3+8F	SCREW	8	
106	XSN3+16FZ	SCREW	2	
107	XSN26+6FC	SCREW	2	
108	XYE4+EF8	SCREW	1	
109	XSS4+14FZ	SCREW	2	
110	XYE3+EF8	SCREW	8	
111	XYN3+F8	SCREW	8	
112	XYN3+J8	SCREW	2	FOR AJ-HD1200AE/MC
113	XNG3BS	NUT	2	FOR AJ-HD1200AE/MC
E1	VEP83624B	REC/PB P.C.BOARD	1	
E2	VEP83625B	V OUT SYSCON P.C.BOARD	1	
E4	VEP85214B	RF/EQ P.C.BOARD	1	
E5	VEP85215A	RF/CUE P.C.BOARD	1	
E6	VEP84393B	A PROC P.C.BOARD	1	
E7	VEP84368B	A I/O P.C.BOARD	1	
E10	VEP81203D	POWER 1 P.C.BOARD	1	FOR AJ-HD1200AP
E10	VEP81203E	POWER 1 P.C.BOARD	1	FOR AJ-HD1200AE/MC
E11	VEP81219B	POWER 2 P.C.BOARD	1	
E12	VEP81232B	POWER 3 P.C.BOARD	1	
E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	
E14	VEP80C73B	MOTHER P.C.BOARD	1	

CASING ASSEMBLY

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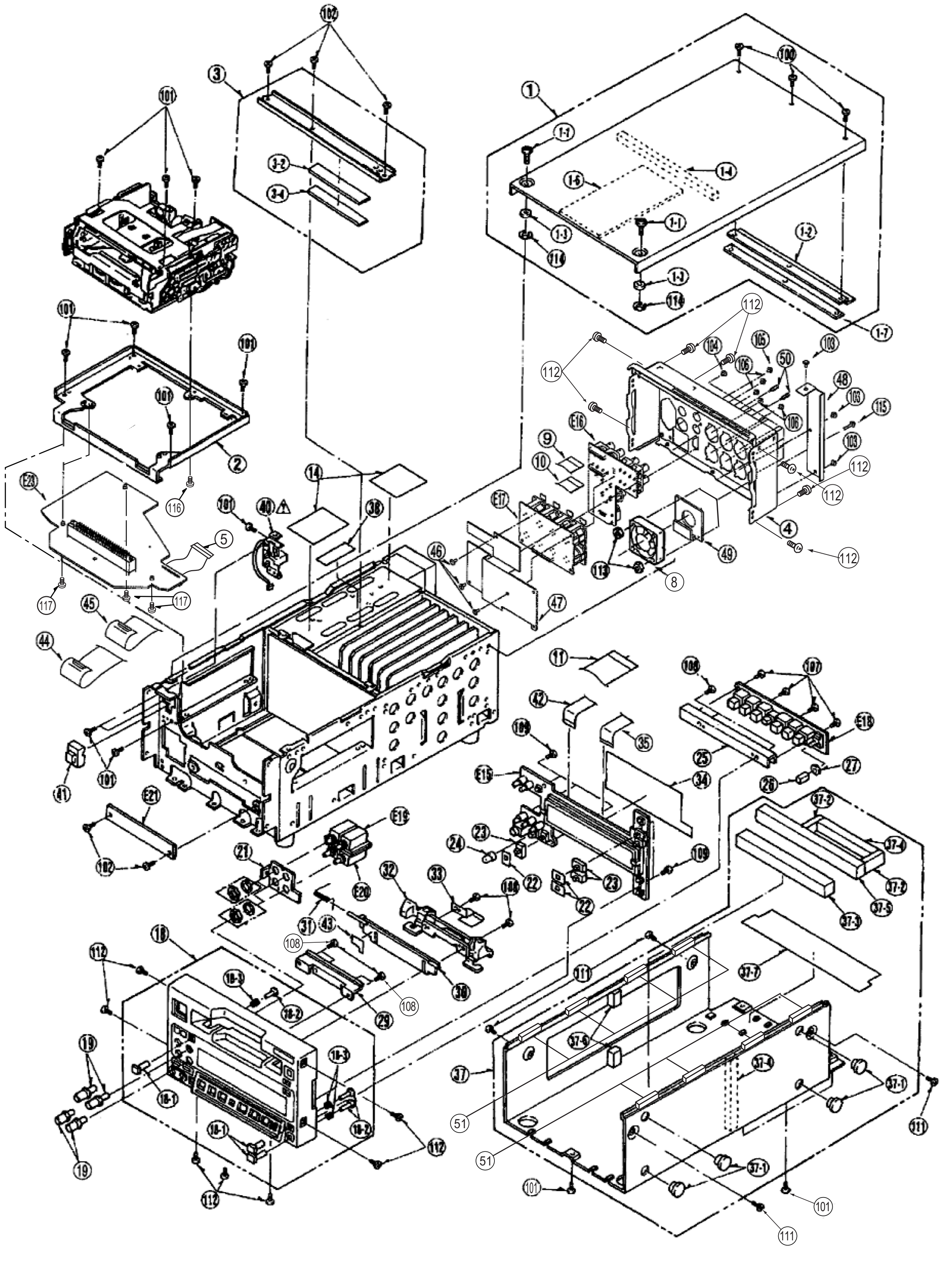

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CASING ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYM0206	TOP PLATE ASS'Y	1	
1-1	VHD0274	SCREW	2	
1-2	VMP5903	TOP PANEL ANGLE	1	
1-3	VMX2510	SPACER	2	
1-4	VMT0967	DUST PROOF CUSHION (C)	1	
1-6	VMZ2325	TOP PANEL BARRIER	1	
1-7	VMX2930	SCREW GUIDE SPACER	1	
2	VXA7800	CHASSIS ANGLE ASS'Y	1	
3	VXA6923	P.C.B. ANGLE A ASS'Y	1	
3-2	VMX3068	P.C.B. HOLDER RUBBER (A)	1	
3-4	VMX3069	P.C.B. HOLDER RUBBER (B)	1	
4	VJH1244	JACK PLATE	1	
5	VEE0Z29	8P CABLE	1	
8	L6FAHBBD0001	FAN MOTOR	1	
9	VWJ1712	AV REMOTE FFC	1	
10	VWJ1711	REAR JACK FFC	1	
11	VWJ1463	28P FFC	1	
14	VMZ2909	SHEET (B)	2	
18	VYP9004	FRONT PANEL (1) ASS'Y	1	
18-1	VGU3894	BUSH BUTTON	3	
18-2	VMB2597	KEY BUTTON COIL SPRING	3	
18-3	VGQ3176	PUSH BUTTON	3	
19	VXU1160	REC VR KNOB	4	
21	VMP5873	VR HOLDER ANGLE	1	
22	VGF0687	SLIDE SW SHEET	3	
23	VGU5582	SWITCH KNOB	3	
24	VGU5605	KNOB	1	
25	VMP5908	P.C.BOARD HOLDER ANGLE	1	
26	VGU8134	TOGGLE SW KNOB	1	K0YA00000037
27	VGK2475	TOGGLE SW SHEET	1	
29	VMP5909	TOP PANEL ANGLE	1	
30	VKF3191	BLIND PANEL	1	FOR AJ-HD1200AP/E
30	VKF3434	BLIND PANEL	1	FOR AJ-HD1200AMC
31	VMB3334	BLIND SPRING	1	
32	VYQ2807	CASSETTE GUIDE ASS'Y	1	
33	VGF0706	FLEXIBLE CABLE BARRIER	1	
34	VMZ2905	FRONT P.C.BOARD BARRIER	1	
35	VWJ24AW210M0	FRONT (1) FFC	1	
37	VYF2998	BOTTOM PLATE ASS'Y	1	
37-1	VMG1197	FOOT	4	
37-2	VMT0976	DUST PROOF CUHION (F)	2	
37-3	VMT1003	DUST PROOF CUHION (P)	1	
37-4	VMT0965	DUST PROOF CUHION (B)	2	
37-5	VMT0967	DUST PROOF CUHION (C)	1	
37-6	VMT0968	DUST PROOF CUHION (D)	2	
37-7	VGF0834	DUST PROOF SHEET	1	
38	VGF0763	DUST PROOF SHEET (C)	1	
⚠ 40	VES0899	POWER SW ASS'Y	1	
41	VGU8051	POWER BUTTON	1	
42	VWJ1276	KEY FFC	1	
43	VGF0836	BLIND SHEET	1	
44	VWJ40E5090L0	FLEXIBLE CABLE	1	
45	VWJ40E5070L0	FLEXIBLE CABLE	1	
46	VJF0108	SPACER	3	
47	VMZ3436	SHIELD SHEET	1	
48	VMP7957	BLANK PANEL	1	
49	VSC5619	FAN SHIELD	1	
50	VXQ0102	SCREW	2	K1YE50000008
51	VMT0877	GASKET	8	
100	XQN26+A25FC	SCREW	3	
101	XTV3+6F	SCREW	15	
102	XTV3+6FFR	SCREW	5	
103	XTV3+6FFZ	SCREW	3	
104	XSN26+6FZ	SCREW	8	
105	XYE4+EF8	SCREW	1	
106	XTN3+10JFZ	SCREW	5	
107	XTN3+F6RS	SCREW	4	
108	XTV3+8G	SCREW	8	
109	XYE3+EJ10FR	SCREW	5	
111	XSB4+4FCW	SCREW	4	
112	XTV3+8FFZ	SCREW	14	
113	XNG3B	NUT	2	
114	VMX2582	WASHER	2	
115	XYN3+K20FZ	SCREW	2	
116	XYE3+EF6	SCREW	1	
117	XYN26+F5	SCREW	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E15	VEP86343A	FRONT P.C.BOARD	1	
E16	VEP83626A	V JACK P.C.BOARD	1	
E17	VEP84394B	A JACK P.C.BOARD	1	
E18	VEP86344A	KEY P.C.BOARD	1	
E19	VEP86346A	REC VR P.C.BOARD	1	
E20	VEP86347A	PB VR P.C.BOARD	1	
E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	
E23	VEP82249B	SERVO P.C.BOARD	1	

PACKING PARTS ASSEMBLY

IMPORTANT SAFETY NOTICE:
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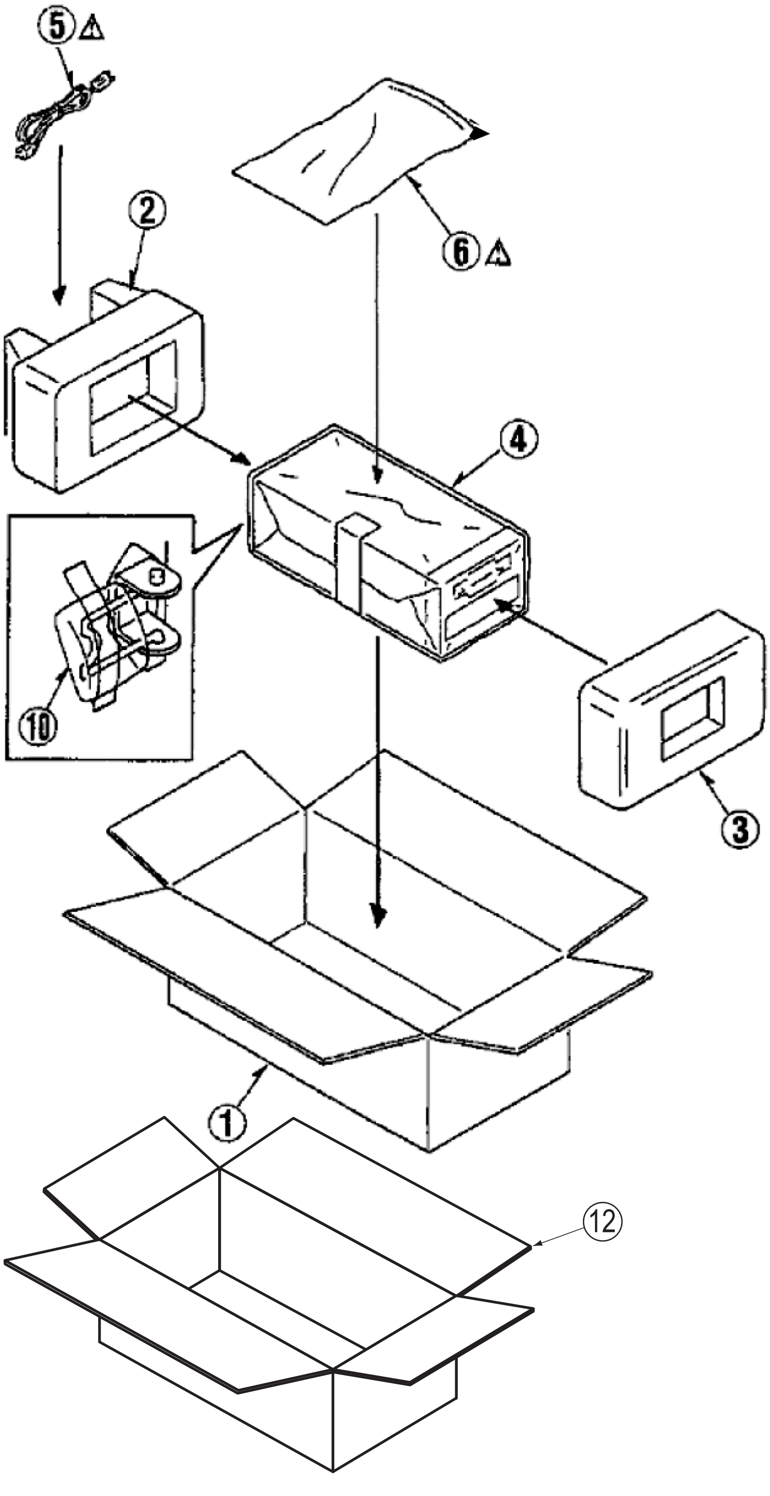

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VPG9169	PACKING CASE	1	
2	VPN5024	CUSHION (R)	1	
3	VPN5023	CUSHION (L)	1	
4	VPF0876	POLYETHYLENE BAG	1	
⚠ 5	K2CG3CH00001	POWER CORD	1	FOR AJ-HD1200AP
⚠ 5	VJA0774	POWER CODE	1	FOR AJ-HD1200AE
⚠ 5	VJA0775	POWER CODE	1	FOR AJ-HD1200AE
⚠ 5	K2CK3DH00015	POWER CORD	1	FOR AJ-HD1200AMC
⚠ 6	VQT0L36	OPERATING INSTRUCTIONS	1	FOR AJ-HD1200AP
⚠ 6	VQT0L37	OPERATING INSTRUCTIONS	1	FOR AJ-HD1200AE
⚠ 6	VQT0L38	OPERATING INSTRUCTIONS	1	FOR AJ-HD1200AMC
10	VPF0892	POLYETHYLENE BAG (2)	1	
12	VPG0Z66	PACKING CASE	1	FOR AJ-HD1200AMC

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

ELECTRICAL REPLACEMENT PARTS LIST
(AJ-YA120AG)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83573H	I/O CONV P.C.BOARD	1	(RTL)
■ E2	VEP83634B	SGEN SDI P.C.BOARD	1	(RTL)
■ E2-1	VEP83631A	HD SDI RX P.C.BOARD	1	(RTL)FOR VEP83634B
■ E2-2	VEP83632A	HD SDI TX P.C.BOARD	1	(RTL)FOR VEP83634B
■ E1	VEP83573H	I/O CONV P.C.BOARD	1	(RTL)
C100	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C101	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C102	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C103	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C104,05	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C106-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C112	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C113,14	EEFCD0J220R	E.CAPACITOR 6.3V 22U	2	
C115	EEFCD0G560R	E.CAPACITOR 4V 56U	1	
C116,17	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C206-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	20	
C340-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C345	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C346-50	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C351	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C352-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C361	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C362	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C363	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C364-69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C380	VCEA1CAP330	C.CAPACITOR 16V 33U	1	F2D1C3300002
C401-16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C420	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C500-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C602,03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C605-08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C610	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C612	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C614	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C618	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C619	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C620	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C621	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C622	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C623	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C624	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C625	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C626-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	19	
C700-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
IC100	LT1963EST	IC	1	
IC101,02	C0CBAAB00021	IC	2	
IC200-04	C0JBAF000315	IC	5	
IC205	C0JBAZ001880	IC	1	
IC206-09	TLCX245FT	IC	4	
IC210,11	C0JBAZ001880	IC	2	
IC212,13	TLCX245FT	IC	2	
IC214	C0JBAZ001880	IC	1	
IC215	TLCX245FT	IC	1	
IC216	C0JBAZ001880	IC	1	
IC217	TLCX245FT	IC	1	
IC218,19	TLCX00FT	IC	2	
IC340	C1ZBZ0001942	IC	1	
IC341	C3ABQG000041	IC	1	
IC342	C0JBAZ001907	IC	1	
IC400	UPD82277N003	IC	1	
IC401	C0JBAZ001880	IC	1	
IC500-11	C3ABQG000041	IC	12	
IC512-15	C3ABQB000001	IC	4	
IC600	C1ZBZ0001884	IC	1	
IC700	C0JBAZ001880	IC	1	
IC701	TVHC244FT	IC	1	
IC702-06	C0JBAF000315	IC	5	
IC709	S80715ANDC	IC	1	
ID1	VVVSI4241B	SOFTWARE	1	DOWNLOAD ONLY
IP700-02	C1ZBZ0001555	IC	3	
L100,01	VLF1151A132	COIL	2	
L102-05	VLP0192	COIL	4	
L108	VLP0192	COIL	1	
P100	VJP4064N160C	CONNECTOR (MALE)	1	K1KBG0A00006
P700,01	K1KA08B00147	CONNECTOR (FEMALE)	2	
R100	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R110	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R111	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R112-16	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R117	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R118	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R119	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R120-66	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	47	
R168	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R169-71	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R172,73	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R174	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R175-83	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	9	
R191-02	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	12	
R207	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R208	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R209	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R210	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R211-14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R215-26	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	12	
R227,28	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R237	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R251	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R267	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R277	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R281	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R289	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R297	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R298	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R299	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R300	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R301	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R302	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R303	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R304	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R305	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R306	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R307	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R308	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R309	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R311-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R315	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R317,18	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R322	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R323	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R327	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R331	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R340	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R341	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R342,43	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R344	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R345	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R346-49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R351	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R352	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R354-59	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	6	
R362-64	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R366	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R367,68	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R371	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R373	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R374	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R375,76	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R377	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R378,79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R380	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R381	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R383	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R384	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R410	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R411-14	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R418,19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R422-04	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	83	
R505-07	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	3	
R508,09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R511	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R519-22	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	4	
R600	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R601-03	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R604,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R607-18	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	12	
R619	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R621	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R622	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R623	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R624,25	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R626	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R627	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R628	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R630	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R633	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R634	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R635-37	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R638	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R639	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R640	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R641	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R642	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R645	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R649,50	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R651	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R652	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R653-60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R661	ERDS2TJ180	C.RESISTOR 1/4W 18	1	
R700	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R701	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R702	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R703	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R704-08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R709	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R710,11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R713	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R714-53	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	40	
R754	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R756	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R758,59	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R760	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R762-64	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R765	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R766,67	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R770	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R773	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R774	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R775	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R776	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R777	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
TG100-05	EYF6CU	TEST POINT	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TP200,01	EYF6CU	TEST POINT	2	
TP340,41	EYF6CU	TEST POINT	2	
TP343-52	EYF6CU	TEST POINT	10	
TP355,56	EYF6CU	TEST POINT	2	
TP358	EYF6CU	TEST POINT	1	
TP361	EYF6CU	TEST POINT	1	
TP363-65	EYF6CU	TEST POINT	3	
TP369,70	EYF6CU	TEST POINT	2	
TP372,73	EYF6CU	TEST POINT	2	
TP400-09	EYF6CU	TEST POINT	10	
TP600	EYF6CU	TEST POINT	1	
TP603,04	EYF6CU	TEST POINT	2	
TP606,07	EYF6CU	TEST POINT	2	
TP612,13	EYF6CU	TEST POINT	2	
TP615	EYF6CU	TEST POINT	1	
TP623-25	EYF6CU	TEST POINT	3	
TP654,55	EYF6CU	TEST POINT	2	
TP657-59	EYF6CU	TEST POINT	3	
TP700,01	EYF6CU	TEST POINT	2	
TP703	EYF6CU	TEST POINT	1	
TP705	EYF6CU	TEST POINT	1	
		MISCELLANEOUS		
	XYN3+K6	SCREW	6	
	VMX2020	P.C.BOARD POST	2	K9ZZ00000689
	VMP7960	UC P.C.B. MOUNT ANGLE	1	
■ E2	VEP83634B	SGEN SDI P.C.BOARD	1	(RTL)
■ E2-1	VEP83631A	HD SDI RX P.C.BOARD	1	(RTL)FOR VEP873634B
■ E2-2	VEP83632A	HD SDI TX P.C.BOARD	1	(RTL)FOR VEP873634B
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3	F3K1A2260001	T.CAPACITOR CH 10V 22U	1	FOR VEP83632A
C5	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C6	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C7	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	FOR VEP83632A
C8	EEFCD0K330R	E.CAPACITOR 8V 33U	1	FOR VEP83632A
C10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C10	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C11	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C12	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83632A
C12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C12	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C13	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	FOR VEP83631A
C14	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83632A
C14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C14	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	FOR VEP83631A
C15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C15	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	FOR VEP83632A
C15	F3K0J3360001	T.CAPACITOR CH6.3V 33U	1	FOR VEP83631A
C16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C16	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C17	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C17	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C18	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83631A
C18,19	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C19	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C20	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C20	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C21	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83631A
C22	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C22	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83631A
C23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C23	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C23	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C24	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C24	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C24	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C26	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C26	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C26	F3K0J3360001	T.CAPACITOR CH6.3V 33U	1	FOR VEP83631A
C27	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C27	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C27	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C28	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C28	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C28	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C29	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C29	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C29	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C30	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C30	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C31	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C31	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C32	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83631A
C32	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C33	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	FOR VEP83631A
C34	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C34	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C35	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C35	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C36	ECUM1H222JN	C.CAPACITOR CH 50V 2200P	1	F1J1H222A508 FOR VEP83631A
C37	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C38	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C38	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C39	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83632A
C39	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C40	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	FOR VEP83632A
C40	F3K0J3360001	T.CAPACITOR CH6.3V 33U	1	FOR VEP83631A
C41	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	FOR VEP83632A
C41	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C42	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	FOR VEP83632A
C42	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C43	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C43	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C44	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C45	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C45	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C46	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C46	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C47	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C48	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C48	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C49	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83631A
C49	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C50	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C50	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C51	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C51	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C53	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C54	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C54	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C55	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83632A
C55	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C56	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83632A
C56	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C57	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83632A
C57	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C58	EEFCD0K330R	E.CAPACITOR 8V 33U	1	FOR VEP83631A
C58	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83632A
C59	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C59	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C60	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	FOR VEP83631A
C61	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C61	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C62	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	FOR VEP83631A
C63	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C67	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C68	EEFCD0K330R	E.CAPACITOR 8V 33U	1	FOR VEP83632A
C69-72	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	4	FOR VEP83632A
C73	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83632A
C101,02	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C103	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C104	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C105-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C116	ECA1CEN470	E.CAPACITOR 16V 47P	1	
C120	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C126,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C129	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C131	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C132	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C137	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C140	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C144	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C146	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C147	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C148	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C150	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C152	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C153	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C154	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C156	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C159,60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C162	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C165,66	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C200-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C204	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C205,06	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C300	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C301	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C302	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C303,04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C305,06	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C307	EEVHP1E3R3	E.CAPACITOR 25V 3.3U	1	
C308,09	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C310,11	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C312	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C313	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C314-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C318	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C319	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C320-22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C323	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C324	EEVHP1E3R3	E.CAPACITOR 25V 3.3U	1	
C325	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C326-28	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C329	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C330-33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C334,35	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C336-38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C339	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C340	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C341-43	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C344	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C345-48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C350-52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C400,01	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C402	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C403-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C406	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C407	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C408	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C409-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C415	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C416	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C417	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C418	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C422-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C426	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C503-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C508	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C510-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C514	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C516,17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C519	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C520-26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C527,28	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C529-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C602-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	11	
C613	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C614	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C615	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C616	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C617,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C619	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C620	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C621	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C622,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C624	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C625	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C626-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	19	
C701,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C703	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C704-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C707	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C708,09	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C710	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D300,01	MA3J14300L	DIODE	2	
D400,01	MA3J14300L	DIODE	2	
D402	MA4030-L	DIODE	1	
D500,01	MA3J14300L	DIODE	2	
IC2	C0CBABD00005	IC	1	
IC3	C0CBAAD00008	IC	1	FOR VEP83632A
IC3	C0CBABD00005	IC	1	
IC3	C1AB00001653	IC	1	FOR VEP83631A
IC4	C0CBAAD00008	IC	1	FOR VEP83631A
IC4	C0JBBZ000174	IC	1	FOR VEP83632A
IC5	C1AB00001900	IC	1	FOR VEP83631A
IC5	C1ZBZ0001555	IC	1	
IC5	C9ZB00000361	IC	1	FOR VEP83632A
IC6	C1ZBZ0002146	IC	1	FOR VEP83632A
IC6	C9ZB00000361	IC	1	FOR VEP83631A
IC6	LT1129CS8	IC	1	
IC7	C0JBBZ000174	IC	1	FOR VEP83631A
IC7	LT1175CS8	IC	1	
IC8	C1ZBZ0001555	IC	1	
IC8	LT1086CM33	IC	1	FOR VEP83631A
IC100	TC7W53FU	IC	1	
IC101	C1AB00000234	IC	1	
IC102	C0JBAM000039	IC	1	
IC103	C0BBZB000001	IC	1	
IC104	C0JBAM000039	IC	1	
IC105	C0JBCA000066	IC	1	
IC106	C0JBAM000045	IC	1	
IC107	C0JBAA000175	IC	1	
IC108	C0ABEB000017	IC	1	
IC109	AD8055AR	IC	1	C0ABGB000013
IC112	GS4981-C	IC	1	
IC114	TC7W53FU	IC	1	
IC116	TC7W53FU	IC	1	
IC119	C0BBZB000001	IC	1	
IC200	UPD65650J203	IC	1	C1ZBZ0001380
IC201	C0JBAM000039	IC	1	
IC300-02	MM74HC221AM	IC	3	C0JBAM000078
IC303	C0JBAM000039	IC	1	
IC304-06	C0ABEB000017	IC	3	
IC307	C0JBAR000353	IC	1	
IC308	C0JBAS000075	IC	1	
IC309	TC7W53FU	IC	1	
IC310	C0JBAB000200	IC	1	
IC311	C0JBAZ000851	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC312	XC62GR5022P	IC	1	
IC314	C0JBAZ000279	IC	1	
IC316	XC62GR5022P	IC	1	
IC320	C0JBAZ000606	IC	1	
IC338	C0JBAA000175	IC	1	
IC339	C0BBZB000001	IC	1	
IC340	C0JBAA000261	IC	1	
IC400	C0JBAA000175	IC	1	
IC401	C0JBAZ000279	IC	1	
IC403	C0ABEB000017	IC	1	
IC405	DS90LV047AC	IC	1	
IC406	C0JBAZ000851	IC	1	
IC407	C0CBADD00003	IC	1	
IC408	C0CBBDB00004	IC	1	
IC409,10	TC7W53FU	IC	2	
IC411	C0CBABD00005	IC	1	
IC500	C0JBAA000175	IC	1	
IC502,03	C0ABEB000017	IC	2	
IC504	C0JBAZ000279	IC	1	
IC506	C0JBAZ000851	IC	1	
IC508	M62370GP	IC	1	C0FBBD000082
IC509	C0CBBDB00004	IC	1	
IC510	C0CBADD00003	IC	1	
IC600	C0JBAZ001728	IC	1	
IC601	C0JBAZ001003	IC	1	
IC602,03	IDTLVC16245F	IC	2	
IC604	C0JBAZ000851	IC	1	
IC605,06	TLCX245FT	IC	2	
IC609	C0JBAB000200	IC	1	
IC610	C0JBAZ001728	IC	1	
IC613	C1ZBZ0002370	IC	1	
IC614	DS90LV047AC	IC	1	
IC615	DS90CR218MTD	IC	1	C0ZBZ0000468
IC618,19	C0CBABD00005	IC	2	
IC620	DS90LV048AC	IC	1	
IC622	DS90CR217MTD	IC	1	C0ZBZ0000466
IC623	TLCX04F	IC	1	
IC624,25	C0JBAZ001825	IC	2	
IC700	C1AB00001386	IC	1	
IC701	C0CBADD00003	IC	1	
ID0	VVVSI4287B	SOFTWARE	1	DOWNLOAD ONLY
J1-J3	VJP4131	CONNECTOR (MALE)	3	K1QZB1AD0003 FOR VEP83631A
J4	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83631A
J5	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83631A
J5 02	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83632A
J700,01	VJP4131	CONNECTOR (MALE)	2	K1QZB1AD0003
L1	VLP0183	COIL	1	J0JKC0000007
L3	VLP0183	COIL	1	J0JKC0000007 FOR VEP83632A
L4	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83631A
L4	VLP0183	COIL	1	J0JKC0000007 FOR VEP83632A
L5	G1C6N8J00006	COIL 6.8UH	1	FOR VEP83631A
L5	VLF1151A132	COIL	1	FOR VEP83632A
L5	VLP0183	COIL	1	J0JKC0000007
L6	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83632A
L6	VLP0173	COIL	1	J0JGC0000015 FOR VEP83631A
L6	VLP0183	COIL	1	J0JKC0000007
L7	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83631A
L7	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83632A
L7	VLP0183	COIL	1	J0JKC0000007
L8	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83631A
L13	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83632A
L100	VLQ0163J390	COIL 39UH	1	
L101	VLQ0163J680	COIL 68UH	1	
L300	J0JCC0000119	FILTER	1	
L301	G1C221J00003	COIL 220UH	1	
L700,01	VLQ0426J010	COIL 1UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4064K100E	CONNECTOR (FEMALE)	1	K1KAA0A00055 FOR VEP83631A
P2	VJS4064K100E	CONNECTOR (FEMALE)	1	K1KAA0A00055 FOR VEP83632A
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	K1KA08B00147	CONNECTOR (FEMALE)	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P600	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A00020
P700	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A00020
Q1	B1ABBB000017	TRANSISTOR	1	FOR VEP83632A
Q2	2SC5185	TRANSISTOR	1	FOR VEP83631A
Q3	B1ABBB000017	TRANSISTOR	1	FOR VEP83632A
Q3	B1ABBB000021	TRANSISTOR	1	FOR VEP83631A
Q4	2SC5185	TRANSISTOR	1	FOR VEP83631A
Q5	2SC5185	TRANSISTOR	1	FOR VEP83632A
Q5	B1ABBB000021	TRANSISTOR	1	FOR VEP83631A
Q6,Q7	2SC5185	TRANSISTOR	2	FOR VEP83632A
Q100	2SD601A-R	TRANSISTOR	1	
Q101	2SA1532-B	TRANSISTOR	1	
Q102,03	2SD601A-R	TRANSISTOR	2	
R1	EXBV8V102J	COMBI.R-R 1K	1	
R2	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R3	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R3	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	FOR VEP83631A
R4	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R4	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	FOR VEP83631A
R5	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R5	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R6	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R7	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R7	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	FOR VEP83631A
R8	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R9	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R9	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R9	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	FOR VEP83631A
R10	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R11	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R11	EXBV8V101J	COMBI.R-R 100	1	
R12	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R12	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83631A
R13	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R13,14	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	FOR VEP83631A
R15	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R15	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83631A
R16	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R16	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83631A
R17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R18,02	D1H810040003	COMBI.R-R 10	2	FOR VEP83632A
R19	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	FOR VEP83631A
R20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005 FOR VEP83631A
R21	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R21	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005 FOR VEP83631A
R22,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83632A
R23	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83631A
R24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R24	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	FOR VEP83631A
R25	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R26	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R26	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	FOR VEP83631A
R27	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83631A
R30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002 FOR VEP83632A
R31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83632A
R32	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R33	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R33	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R34	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	FOR VEP83631A
R34	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R35	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R35	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	FOR VEP83631A
R36	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R36,37	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	2	FOR VEP83631A
R37	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83632A
R38	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83631A
R39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R41	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R42	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R43	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R43	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	FOR VEP83632A
R44	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	FOR VEP83631A
R44	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	FOR VEP83632A
R45	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	FOR VEP83631A
R46	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R46	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	FOR VEP83631A
R47	D1H84704A008	COMBI.R-R 47	1	FOR VEP83631A
R47	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R48	D1H84704A008	COMBI.R-R 47	1	FOR VEP83631A
R48	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R49,50	D1H84704A008	COMBI.R-R 47	2	FOR VEP83631A
R50	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R51	D1H84704A008	COMBI.R-R 47	1	FOR VEP83631A
R52	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R52	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	FOR VEP83631A
R53	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83631A
R54	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R54	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83631A
R55	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83631A
R56	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83631A
R57	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	FOR VEP83631A
R58	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	FOR VEP83632A
R58	VRE006610102	M.RESISTOR CH 1/10W 1K	1	D0YD102JA007 FOR VEP83631A
R59	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R59	ERJ3RBD301	M.RESISTOR CH 1/16W 300	1	FOR VEP83631A
R60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	FOR VEP83631A
R61	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	FOR VEP83632A
R62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R63	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	FOR VEP83632A
R63	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	FOR VEP83631A
R64	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83631A
R64	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	FOR VEP83632A
R65	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002 FOR VEP83631A
R65	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	FOR VEP83632A
R66	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83631A
R67	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	FOR VEP83632A
R68	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002 FOR VEP83631A
R68	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	FOR VEP83632A
R69	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R69	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	FOR VEP83632A
R70	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R70	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	FOR VEP83632A
R71	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R71	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83632A
R72	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R72	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83632A
R73	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R73	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R74	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R74	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83632A
R75	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R75	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R76	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R76	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R77	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R77	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83632A
R78	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R78	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83632A
R79	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R79	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R80	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R80	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R81	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R81	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83632A
R82	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R82	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R83	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	FOR VEP83632A
R84	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	FOR VEP83632A
R85	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R85	VRE006622152	M.RESISTOR CH 1/10W 1.5K	1	D0YD152JA008 FOR VEP83632A
R86	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83631A
R86	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	FOR VEP83632A
R87	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R88	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R88	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83632A
R89,90	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	FOR VEP83632A
R91,92	ERJ3RED180	M.RESISTOR CH 1/16W 18	2	FOR VEP83632A
R93,94	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	FOR VEP83632A
R95	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83632A
R96-99	ERJ3RED680	M.RESISTOR CH 1/16W 68	4	FOR VEP83632A
R100,01	ERJ3RBD471	M.RESISTOR CH 1/16W 470	2	FOR VEP83632A
R102	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R102	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	FOR VEP83632A
R103	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R103	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	FOR VEP83632A
R104	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R105	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R105	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R106	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R106	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R107	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R108	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R109,10	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R111	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R112	ERJ3RED224	M.RESISTOR CH 1/16W 220K	1	
R113	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R114	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R115	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R116	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R117	ERJ3RED184	M.RESISTOR CH 1/16W 180K	1	
R118	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R119	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R120	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R123	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R125	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R126	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R131	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R132	ERJ3RED394	M.RESISTOR CH 1/16W 390K	1	
R133	ERJ3RED224	M.RESISTOR CH 1/16W 220K	1	
R135	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R138	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R139	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R141	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R143	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R144	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R146,47	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R148	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R200	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R201	EXBV8V102J	COMBI.R-R 1K	1	
R202-05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R206	ERJ3RED154	M.RESISTOR CH 1/16W 150K	1	
R207	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R208,09	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R210	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R211	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R300	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R301	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R302	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R303,04	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R305,06	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R307,08	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R309	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R310	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R311	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R312,13	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	2	
R314	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R315	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R316,17	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	2	
R318	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R319	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R320	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R321	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R322	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R323,24	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R325	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R326,27	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R328	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R329	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R330	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R331	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R335-37	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R339-41	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R400	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R401	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R402	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R403	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R404	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R405	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R406	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R407	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R408	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R409	ERJ3RED124	M.RESISTOR CH 1/16W 120K	1	
R410	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R412	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R413	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R415	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R416,17	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R420	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R500-02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R503-05	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R507	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R508	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R509	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R510	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R511	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R512	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R513	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R514	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R515	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R516	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R517	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R518	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R519	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R520	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R521,22	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R523	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R525,26	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R527	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R600,01	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R603,04	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R605	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R606	EXBV8V102J	COMBI.R-R 1K	1	
R608,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R610	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R611	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R612	D1H833040002	COMBI.R-R 33	1	
R613,14	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R615	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R616	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R617,18	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R621,22	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R623,24	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R625	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R626-31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R632-35	EXBV8V102J	COMBI.R-R 1K	4	
R636-46	D1H833040002	COMBI.R-R 33	11	
R647,48	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R650	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R651	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R652	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R653-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R658,59	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R660,61	EXBV8V101J	COMBI.R-R 100	2	
R662	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R663,64	D1H833040002	COMBI.R-R 33	2	
R665	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R666-69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R670	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R671	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R672	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R673,74	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R675-79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R682	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R684-88	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R689	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R690-94	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R697	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R698,99	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R700-02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R703	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R704	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R705	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R707	ERJ3RHD3740	M.RESISTOR CH 1/16W 370K	1	
R708	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R709-12	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R713-15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
SW1	VSS0367-02B	SWITCH	1	FOR VEP83631A
TG1	EYF6CU	TEST POINT	1	
TG1	EYF6CU	TEST POINT	1	FOR VEP83631A
TG6	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP2	EYF6CU	TEST POINT	1	
TP3	EYF6CU	TEST POINT	1	FOR VEP83631A
TP100	EYF6CU	TEST POINT	1	
TP113,14	EYF6CU	TEST POINT	2	
TP200	EYF6CU	TEST POINT	1	
TP203	EYF6CU	TEST POINT	1	
TP205	EYF6CU	TEST POINT	1	
TP300,01	EYF6CU	TEST POINT	2	
TP401	EYF6CU	TEST POINT	1	
TP603-07	EYF6CU	TEST POINT	5	
TP609,10	EYF6CU	TEST POINT	2	
TP614	EYF6CU	TEST POINT	1	
VR300,01	VRV0113B103	V.RESISTOR 10K	2	
VR302,03	VRV0113B503	V.RESISTOR 50K	2	D3EC45030002
VR304,05	VRV0113B502	V.RESISTOR 5K	2	D3EC45020002
VR400,01	VRV0113B502	V.RESISTOR 5K	2	D3EC45020002
X1	H4G1487B0002	CRYSTAL OSCILLATOR	1	FOR VEP83631A
X1	H4G1487B0002	CRYSTAL OSCILLATOR	1	FOR VEP83632A
X300	VSX0688	CRYSTAL OSCILLATOR	1	H1C1435B0001
X301	VSX0689	CRYSTAL OSCILLATOR	1	H1C1775B0002
X302	VSX0677	CRYSTAL OSCILLATOR	1	H1C1355B0002
X400	H1C7415B0003	CRYSTAL OSCILLATOR	1	
X401	H1C7425B0003	CRYSTAL OSCILLATOR	1	
X500	VSX0906	CRYSTAL OSCILLATOR	1	H4G2705A0001
X501	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
	VMS4950	P.C.B. POST	8	
	XYN26+J6	SCREW	16	
	VMP6727	CONNECTOR MOUNT PLATE A	1	
	VMP7966	CONNECTOR MOUNT PLATE B	1	
	VMX3062	BNC CNCT HOLDER RUBBER	1	
	VMX3064	CONNECTOR HOLDER RUBBER C	1	
	VMX3405	CONNECTOR HOLDER RUBBER E	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

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ELECTRICAL REPLACEMENT PARTS LIST
(AJ-YAD120AG)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83651A	1394 IF P.C.BOARD	1	(RTL)
■ E2	VEP80D12A	CN P.C.BOARD	1	
■ E1	VEP83651A	1394 IF P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3,C4	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C8-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C12,13	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C14	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C16,17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C18,19	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C20,21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C22	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C23-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C26	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C50,51	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C53	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C55	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C56-66	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	11	
C67	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C68,69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C71	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C76	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C100	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C150	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C151	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C152	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C153	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C154	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C155	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C156	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C157	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C158-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C161	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C162,63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C164	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C165-71	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C172	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C173-78	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C200,01	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C250,51	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C252	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C253-55	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C256	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C257-59	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C261	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C263,64	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C266	EEFCD0K330R	E.CAPACITOR 8V 33U	1	
C300-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C304	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C305-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C311	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C312	ECUX1C224KBN	C.CAPACITOR CH 16V 0.22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C313-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C316	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C317,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C319	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C320-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C350-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C400-07	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C450-61	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C500	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C502-09	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C550,51	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	2	
C552-56	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C561	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C571,72	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C573	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C574	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C670	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C671,72	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C673	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C674	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C675	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C676	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C677	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C678	ECJ1VC1H560J	C.CAPACITOR CH 50V 560P	1	
C679	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C680	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C681-83	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
D50-54	LN1271RAL	DIODE	5	
D500	LN1271RAL	DIODE	1	
D670	MA2SV0100L	DIODE	1	
IC1	C0CBAAD00023	IC	1	
IC2	C0EBE0000209	IC	1	
IC3,C4	C0CBAAD00008	IC	2	
IC5	C0CBAAG00019	IC	1	
IC6	C0DBAHC00028	IC	1	
IC50	C2GBC0000084	MICRO CONTROLLER	1	
IC51	C0JBAA000174	IC	1	
IC53	TC7W241FU	IC	1	
IC55	C3EBFG000004	IC	1	
IC56	TC7SH32FU	IC	1	
IC58	C0JBAZ000516	IC	1	
IC60	C1AB00001228	IC	1	
IC100	IDT71V321L5F	IC	1	C3HBCC000023
IC150	C9ZB00000410	IC	1	
IC200	C3ABRG000011	IC	1	
IC250	C1DB00000873	IC	1	
IC300	VSI4128A	IC	1	
IC301	C3ABQG000045	IC	1	
IC350	T160G70-1601	IC	1	
IC400	MN673797A	IC	1	
IC450	C1ZBZ0002432	IC	1	
IC500	TC7W241FU	IC	1	
IC502	C1ZBZ0002224	IC	1	
IC503	C3FBMG000011	IC	1	
IC551,52	C0JBAZ001825	IC	2	
IC556,57	C0JBAZ001907	IC	2	
IC560	C0JBAZ001825	IC	1	
IC561,62	C0JBAB000422	IC	2	
IC600	C0JBAZ000279	IC	1	
IC601	C0JBAZ000529	IC	1	
IC602	C0JBAZ001825	IC	1	
IC604	C0ABHA000020	IC	1	
ID0	VVVSI4282D	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4288C	SOFTWARE	1	DOWNLOAD ONLY
L1	VLP0183	COIL	1	J0JKC0000007
L3	VLP0183	COIL	1	J0JKC0000007
L50	VLQ0319K470	COIL 47UH	1	G1C470K00013
L250	VLQ0319K470	COIL 47UH	1	G1C470K00013
L251,52	J0LB00000048	FILTER	2	
L550	VLQ0319K470	COIL 47UH	1	G1C470K00013
L670	VLQ0163J470	COIL 47UH	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L671	G3AR56Z00001	COIL 0.56UH	1	
P1	VJS4064K100E	CONNECTOR (FEMALE)	1	K1KAA0A00055
P2	VJS3791B020	CONNECTOR (FEMALE)	1	
P50	K1KA10A00303	CONNECTOR (MALE)	1	
P250	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P500	K1KA08B00147	CONNECTOR (FEMALE)	1	
⚠ Q1	HAT1033T	TRANSISTOR	1	
Q670	2SA153200L	TRANSISTOR	1	
Q671	2SC3930	TRANSISTOR	1	
QR1	UNR521400L	TRANSISTOR-RESISTOR	1	
QR50-54	UNR521400L	TRANSISTOR-RESISTOR	5	
QR500	UNR521400L	TRANSISTOR-RESISTOR	1	
R1	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R2	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4-R6	D1H84704A008	COMBI.R-R 47	3	
R7	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R8	EXBV8V102J	COMBI.R-R 1K	1	
R9,10	D1H847240002	COMBI.R-R 4.7K	2	
R11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R12	EXBV8V102J	COMBI.R-R 1K	1	
R15	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R16	ERJ3RBD751	M.RESISTOR CH 1/16W 750	1	
R50	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R51	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R53-55	EXBV8V102J	COMBI.R-R 1K	3	
R56-61	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	6	
R62	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R63,64	EXBV8V102J	COMBI.R-R 1K	2	
R65	D1H847240002	COMBI.R-R 4.7K	1	
R74	EXBV8V102J	COMBI.R-R 1K	1	
R75	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R76	EXBV8V102J	COMBI.R-R 1K	1	
R77	D1H833040002	COMBI.R-R 33	1	
R78	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R79	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R80	D1H833040002	COMBI.R-R 33	1	
R81	EXBV8V102J	COMBI.R-R 1K	1	
R82	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R83	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R85	EXBV8V102J	COMBI.R-R 1K	1	
R86	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R87	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R92	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R93	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R95	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R101-04	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	4	
R105,06	D1H833040002	COMBI.R-R 33	2	
R151	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R157	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R159	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R161,62	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R163	D1H847240002	COMBI.R-R 4.7K	1	
R165	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R166	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R168,69	D1H847240002	COMBI.R-R 4.7K	2	
R172,73	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R200	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R250	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R251	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R252	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R253,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R256	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R257	D0GZ103J0001	M.RESISTOR CH 10K	1	
R258	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R259	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R261	ERJ6RBD912	M.RESISTOR CH 1/10W 9.1K	1	
R262-65	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	4	D0GD560JA003
R266	ERJ6GEYJ512V	M.RESISTOR CH 1/10W 5.1K	1	D0GD512JA003
R268	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R270,71	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R300-02	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R306	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R307	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R309	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R310	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R400-05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	6	D0GB103JA002
R406-09	D1H833040002	COMBI.R-R 33	4	
R410,11	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R412-14	D1H833040002	COMBI.R-R 33	3	
R415,16	EXBV8V101J	COMBI.R-R 100	2	
R417,18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R450	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R451	D1H833040002	COMBI.R-R 33	1	
R453,54	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R455	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R456	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R457-65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	9	
R467,68	D1H833040002	COMBI.R-R 33	2	
R469,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R471	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R472	D1H847240002	COMBI.R-R 4.7K	1	
R473	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R474-77	EXBV8V102J	COMBI.R-R 1K	4	
R478,79	D1H833040002	COMBI.R-R 33	2	
R480-82	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R484,85	EXBV8V102J	COMBI.R-R 1K	2	
R486	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R492	EXBV8V102J	COMBI.R-R 1K	1	
R503	D1H847240002	COMBI.R-R 4.7K	1	
R504-07	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R509	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R514	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R515-17	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	3	
R519-22	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R523-27	D1H847240002	COMBI.R-R 4.7K	5	
R550	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R551	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R552	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R553	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R554	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R556,57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R558	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R559-62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R563	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R564	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R565,66	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R567,68	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R569,70	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R573-75	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R577	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R578	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R579	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R580,81	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R585,86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R597	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R598	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R599	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R670	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R671,72	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R673	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R674	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R676	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R677	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R678	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R679	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R680	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R681	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R682	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R683	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R684	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R685,86	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R687	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R688,89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R690,91	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R692,93	D1H833040002	COMBI.R-R 33	2	
R694	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
SW50,51	K0D141A00002	SWITCH	2	
TG1,G2	EYF6CU	TEST POINT	2	
TP70	EYF6CU	TEST POINT	1	
TP401	EYF6CU	TEST POINT	1	
TP404	EYF6CU	TEST POINT	1	
TP450	EYF6CU	TEST POINT	1	
TP454,55	EYF6CU	TEST POINT	2	
TP461,62	EYF6CU	TEST POINT	2	
TP481-83	EYF6CU	TEST POINT	3	
TP550	EYF6CU	TEST POINT	1	
TP554	EYF6CU	TEST POINT	1	
TP670,71	EYF6CU	TEST POINT	2	
VC670	VCV0050	TRIMMER	1	
X50	H0J921400004	CRYSTAL OSCILLATOR	1	
X250	VSX0974	CRYSTAL OSCILLATOR	1	H0J245500010
X550	H0J180500011	CRYSTAL OSCILLATOR	1	
X551	VSX0983	CRYSTAL OSCILLATOR	1	H1A2705B0007
		MISCELLANEOUS		
	VMS4950	P.C.B. POST	3	
	XYN26+J6	SCREW	6	
	C1ZBZ0002330	IC	1	
■ E2	VEP80D12A	CN P.C.BOARD	1	(RTL)
D1-D4	D4ED12700007	DIODE	4	
D5	B0KB00000041	DIODE	1	
P1	K1FA106E0001	CONNECTOR	1	
P2	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
		MISCELLANEOUS		
	VJF1490	CONNECTOR HOLDER A	1	
	VJF1491	CONNECTOR HOLDER B	1	
	XYN2+J6	SCREW	2	

SECTION 1

SERVICE INFORMATION

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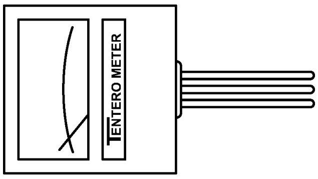
1. SERVICING FIXTURES & TOOLS

NO.	NEW	PART NO.	FIXTURE & TOOL NAME	REMARK
1		VFK1145A	Back Tension Meter	
2		VFK1149B	Post Driver	
3		VFK71A	Dial Torque Gauge (1.5cN·m)	150g
4		VFK1191A	Dial Torque Gauge (0.45cN·m)	45g
5		VFK1152	Dial Torque Gauge Adapter	
6		VFK0357	Eccentric Screwdriver (1.5mm)	
7		VFK1154	Post Height Fixture	
8		VFK1586	Neutral Position Plate	for L Cassette
9		VFK1587	Neutral Position Tool (w/ hole)	
10		VFK1588	Neutral Position Tool (w/o hole)	
11		VFK1150A	Nut Driver (5.5mm)	
12		VFK1593	Nut Driver (4.5mm)	
13		VFK1188A	Dial Tension Gauge (300mN)	30g
14		VFK0749	Froiral Grease	for plastics
15		MOR265	Morlytone Grease	for metal
16		VFK0948A	Check Light	
17		VFK1146A	Philips Driver (Fine) (00-75)	
18		VFK1147A	Philips Driver (Fine) (00-100)	
19		VFK1148A	Hex. Driver (1.5mm)	
20		VFK1178A	Hex. Driver (0.89mm)	
21		VFK1589	A/C Head Fixture	
22		VFK1209A	Torque Driver (4 cN·m-30 cN·m)	0.4 kgf·cm -3kgf·cm
23		VFK1590	CPLD Writer	
24		VFK0912	Post Axis Driver (1.5mm)	
25		VFM3580KM	DVCPRO Alignment Tape (No.1) for NTSC	or VFM3580KL
26		VFM3581KM	DVCPRO Alignment Tape (No.2) for NTSC	or VFM3581KL
27		VFM3582KM	DVCPRO Alignment Tape (No.3) for NTSC	or VFM3582KL
28		VFM3380KM	DVCPRO 50 Alignment Tape for NTSC	
29		VFM3010EDS	DV Alignment Tape (Color Bars) for NTSC	
30		VFM3000EDS	DV Alignment Tape for LISTA	
31		VFM3780KML	DVCPRO HDLP Alignment Tape (Color –bar)	
32		VFM3781KML	DVCPRO HDLP Alignment Tape (LISTA)	
33		VFM3782KML	DVCPRO HDLP Alignment Tape (X-Value)	
34		VFM3783KML	DVCPRO HDSP Alignment Tape (Noise Chancellor)	
35		AJ-CL12MP	Cleaning Tape	Via Sales Rote
36		VFK1369	Tape Beg./End Detection Cassette	or VFK1423
37		VFK1186	LISTA Cable	
38		VFK1300	A/D Board (DAQ-12 Quatech)	
39		VFK1498	Extender Board	
40		VZZ0095	Cleaning Cloth	
41		VFK1190	Hex. Wrench	
42		VFK1304A	Flash Memory Version up Tool	

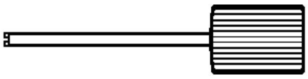
*** The following adjustment software can be downloaded from the Web Site.**

S1		VFK1481K	LISTA Software	
S2		VFK1248M	Flash Memory Version-up Software	
S3		VFK1879	CPLD Version-up Software	
S4		VFK1839A	RF Auto Adjustment Software	

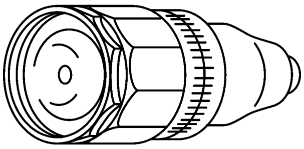
1 **VFK1145A**
Back Tension Meter



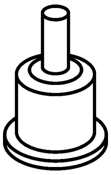
2 **VFK1149B**
Post Driver



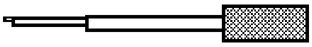
3 **VFK71A** (1.5cN·m)
4 **VFK1191A** (0.45cN·m)
Dial Torque Gauge



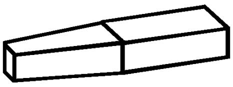
5 **VFK1152**
Dial Torque Gauge
Adapter



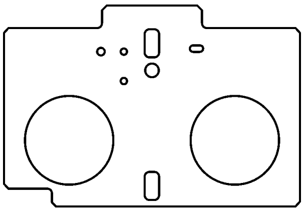
6 **VFK0357**
Eccentric Screwdriver
(1.5mm)



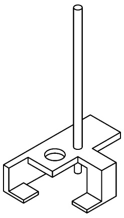
7 **VFK1154**
Post Height Fixture



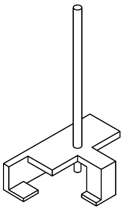
8 **VFK1586**
Neutral Position Plate
(For L Cassette)



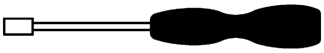
9 **VFK1587**
Neutral Position Tool
(W/ hole)



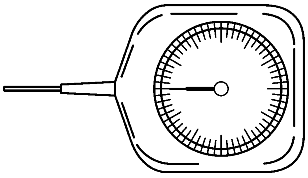
10 **VFK1588**
Neutral Position Tool
(W/o hole)



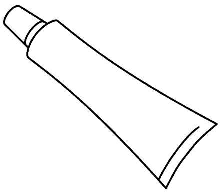
11 **VFK1150A (5.5mm)**
12 **VFK1593 (4.5mm)**
Nut Driver



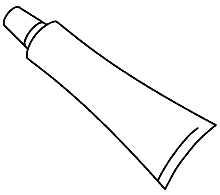
13 **VFK1188A**
Dial Tension Gauge
(300mN)



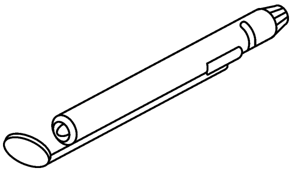
14 **VFK0749**
Froiral Grease
(for plastics)



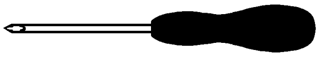
15 **MOR265**
Morlytone Grease
(for metal)



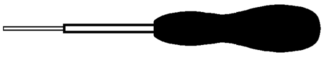
16 **VFK0948A**
Check Light



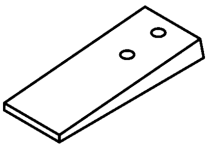
17 **VFK1146A (00-75)**
18 **VFK1147A(00-100)**
Philips Driver (Fine)



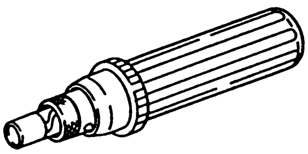
19 **VFK1148A(1.5mm)**
20 **VFK1178A(0.89mm)**
Hex. Driver



21 **VFK1589**
A/C Head Fixture

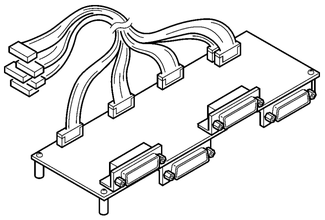


22 **VFK1209A**
Torque Driver
(4 cN·m-30 cN·m
(0.4 kgf·cm -3kgf·cm))



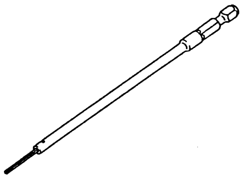
23 **VFK1590**
C PLD Writer

Cables to the boards
VFK1590P1, VFK1590P2,
VFK1590P3, VFK1590P4
and VFK1590P5 included.



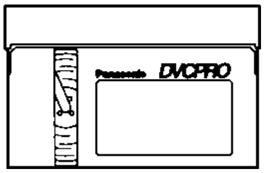
24 VFK0912

Post Axis Driver
(1.5mm)



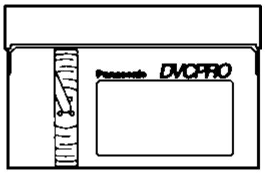
25 VFM3580KM or KL
26 VFM3581KM or KL
27 VFM3582KM or KL

DVCPRO
Alignment Tape



28 VFM3380KM

DVCPRO 50
Alignment Tape (NTSC)

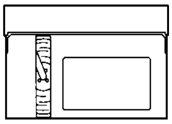


29 VFM3010EDS

DV Alignment Tape
(Color Bars) (NTSC)

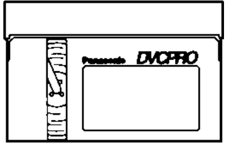
30 VFM3000EDS

DV Alignment Tape
(LISTA)



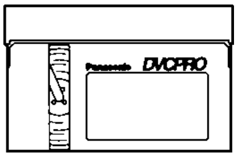
31 VFM3780KML(LP)
32 VFM3781KML(LP)
33 VFM3782KML(LP)
34 VFM3783KML(SP)

DVCPRO HD
Alignment Tape



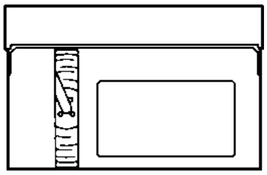
35 AJ-CL12MP

Cleaning Tape



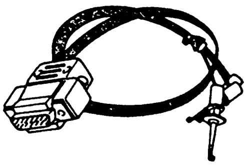
36 VFK1369

Tape Beg./End
Detection Cassette



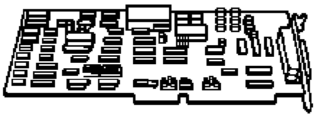
37 VFK1186

LISTA Cable



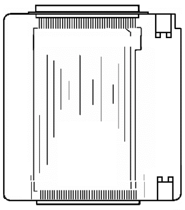
38 VFK1300

A/D Board
(Quatech DAQ-12)



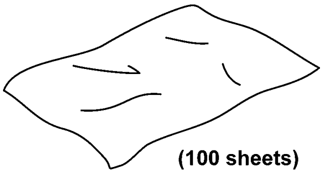
39 VFK1498

Extender Board



40 VZZ0095

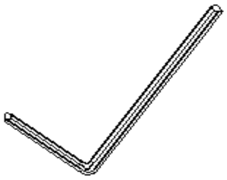
Cleaning Cloth



(100 sheets)

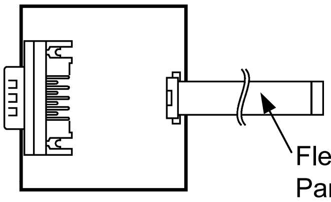
41 VFK1190

Hex Wrench



42 VFK1304A

Flash Memory Version up Tool
(VFK1304 includes the flexible cable
"VWJ20E5500L0".)



Flexible cable
Part No.: VWJ20E5500L0

2. ALIGNMENT TAPE

2-1. VFM3580KM / KL (NTSC) (25M adjustment tape No. 1)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	**Purpose**	**Signal**	**Purpose**	**Signal**	**Purpose**
0:00	Color bar SMPTE(75%)	Confirmation of the composite video level	1KHz –20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
7:00	Color bar (100%)	Confirmation of the composite video level				
14:00	H sweep	Frequency characteristic			6KHz 0VU	A/C head azimuth adjustment
18:00	Bow tie (500K)	Y/C timing				
22:00	Pulse & bar	Y/C timing			300, 500, 1K 2K, 4K, 6KHz	Frequency characteristic
26:00	Area marker	Video start timing			-----	-----

2-2. VFM3581KM / KL (NTSC) (25M adjustment tape No. 2 for LISTA adjustment)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	**Purpose**	**Signal**	**Purpose**	**Signal**	**Purpose**
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-3. VFM3582KM / KL (NTSC) (25M adjustment tape No. 3 for X-value adjustment)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	**Purpose**	**Signal**	**Purpose**	**Signal**	**Purpose**
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

2-4. VFM3380KM (NTSC) (50M adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	**Purpose**	**Signal**	**Purpose**	**Signal**	**Purpose**
0:00	Color bar (with teletext) (100%)	Confirmation of video level and teletext level	1KHz –20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
4:00	Color bar (SMPTE) (75%)	Confirmation of the video level				
7:00	Multiburst (Y/Pb/Pr)	Frequency characteristic				
10:00	Multiburst (only Y)	Y-frequency characteristic				
13:00	Bow tie	Y/C timing				
16:00	Area marker	Video start timing				

2-5. VFM3010EDS (NTSC) (DV Color Bar adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz		-----	-----

2-6. VFM3000EDS (NTSC/PAL) (DV LISTA adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	LISTA signal	Adjustment of the linearity	-----	-----	-----	-----

2-7. VFM3780KML (HD-LP)

(DVCPRO HD LP MODE adjustment tape No.1)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00-20:00	Color bar (100%)	Confirmation of video level and teletext level	1KHz –20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level

2-8. VFM3781KML (HD-LP)

(DVCPRO HD LP MODE adjustment tape No.2) (For LISTA adjustment)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00-20:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-9. VFM3782KML (HD-LP)

(DVCPRO HD LP MODE adjustment tape No.3) (For X-value adjustment)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00-20:00	Color bar (100%) w/ REF	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

2-10. VFM3783KML (HD-LP)

(DVCPRO HD LP MODE adjustment tape No.3) (For X-value adjustment)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00-10:00	Color bar (100%) w/ REF	Confirmation of Video Level	1KHz –20Db	Confirmation of the audio level	1KHz	Confirmation of cue audio.
10:00-20:00					-----	-----

3. RECOMMENDED MEASURING INSTRUMENTS

NAME	REMARK
NTSC analogue composite signal generator (with CF OUT)	
SCH meter (NTSC)	
Waveform monitor (NTSC)	
Vector scope (NTSC)	
Oscilloscope	
Digital voltmeter (D.V.M.)	
Frequency counter	
Audio noise meter	
Audio analyser	
Spectrum analyser	
HD Signal Generator	
SD Signal Generator	
HD Waveform Monitor	
SD Waveform Monitor	
HD Monitor	
SD Monitor	

4. MAINTENANCE

4-1. Maintenance Schedule

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the functions always in best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms wear parts, and their wear and deterioration cause problems. Dust and dirt also can impair stable operation. For this reason it is important to not just perform repair at the time of a problem, but to perform suitable maintenance at regular intervals.

	Part name	Part No.	Drum Rotation (hours)				
			Every 1,000	**3,000**	**6,000**	**9,000**	**12,000**
-	Cleaning tape transportation	-----	**C: Every 500 hours**				
-	Mechanical chassis unit	VXY1842Z1					**R**
1	Cylinder Unit	VEG1655		**R**	**R**	**R**	**IM**
2	Pinch Arm Unit	VXL3040	**R, G**	**R, G**	**R, G**	**R, G**	**IM**
3	Cleaning Arm Unit	VXL3028	**R: Every 1000 hours**				**IM**
4	S Reel Motor Unit	VEM0724			**R**		**IM**
5	T Reel Motor Unit	VEM0731			**R**		**IM**
6	Capstan Unit	VEM0717			**R**		**IM**
7	S Loading Unit	VXA7528			**R, G**		**IM**
8	T Loading Unit	VXA7530			**R, G**		**IM**
9	S4 Post Base Unit	VXA7523			**R**		**IM**
10	S Tension Arm Unit	VXL3165			**R**		**IM**
11	T5 Arm (1) Unit	VXL3164			**R, G**		**IM**
12	T6 Arm Unit	VXL3163			**R**		**IM**
13	Mode SW Unit	VES0925			**R**		**IM**
14	A/C Head 1 Unit	VED0466					**IM**
15	Motor Unit	VEM0726					**IM**
16	Reel Drive Motor Unit	VEM0585C					**IM**
17	Pinch Solenoid	VSJ0227					**IM**
18	S Brake Solenoid	VSJ0216					**IM**
19	T Brake Solenoid	VSJ0216					**IM**
20	MIC SW Base Unit	VXA7921C					**IM**
21	Cleaner Solenoid	VSJ0226					**IM**
22	Main Cam Gear	VDG1424					**IM**
23	Reel Stopper Solenoid	VSJ0216					**IM**
24	Front Loading Motor U.	VXA5597					**F**
25	Front Loading Unit	VXA7920					**R**
26	Fan motor	L6FAHBBD0001					**R**

Exchange of the mechanical chassis unit is recommended for the 12,000 h maintenance.

C : Perform cleaning.
R : Assembly subject to exchange.
G : At the time of exchange, wipe off the old grease and apply new grease.
(Morlytone grease)
IM : Included in the mechanical chassis unit.
When the mechanical chassis unit is not exchanged, exchange as a single part is required.
F : Included in the front-loading unit.

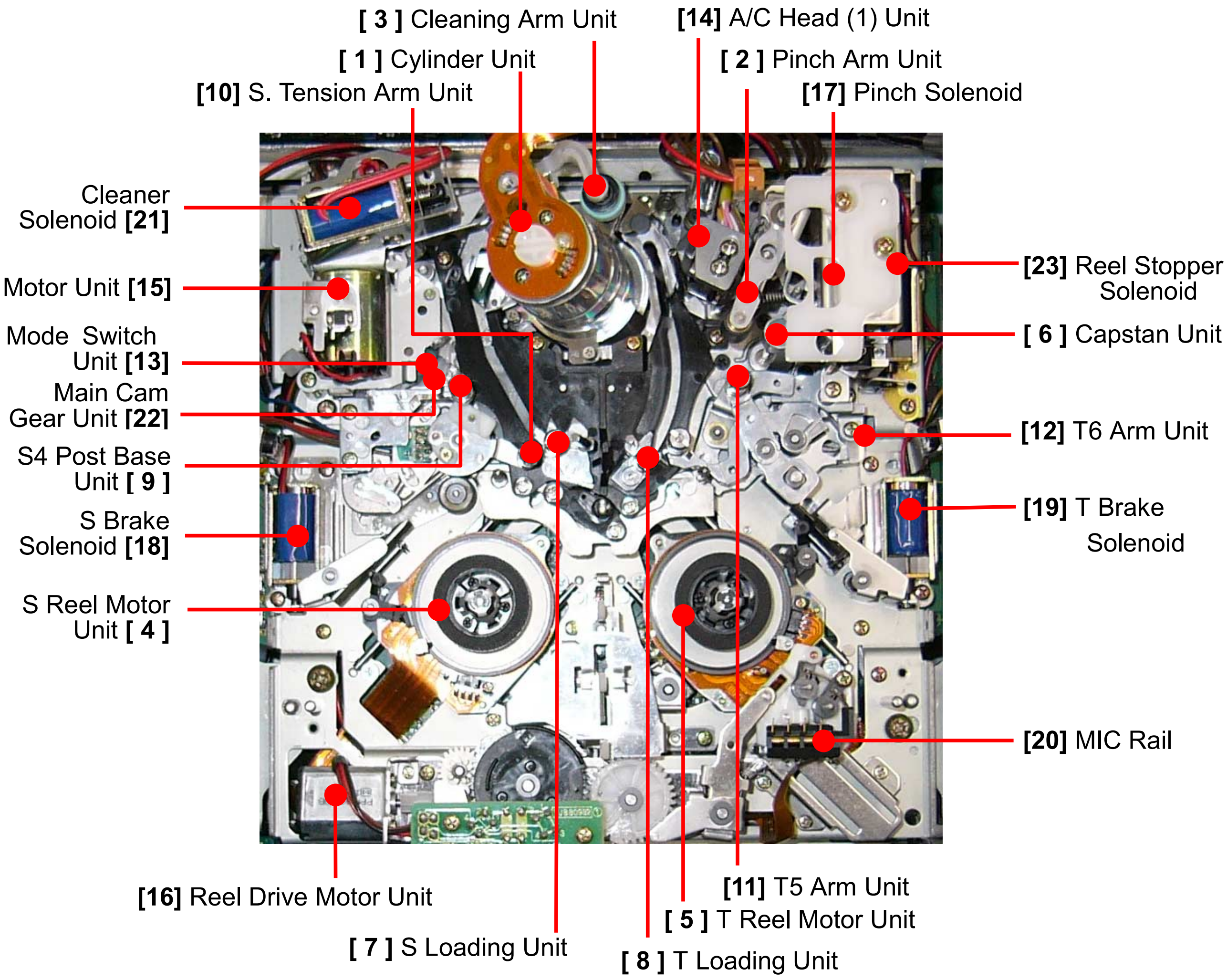
<Note:>

The Hours of use is indicated by the cylinder rotation time (DRUM RUN).

The maintenance execution time shown in the chart is recommendation for standard maintenance execution. This is not the Life of the various parts. The Life is influenced by temperature, humidity, dust, etc.

Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

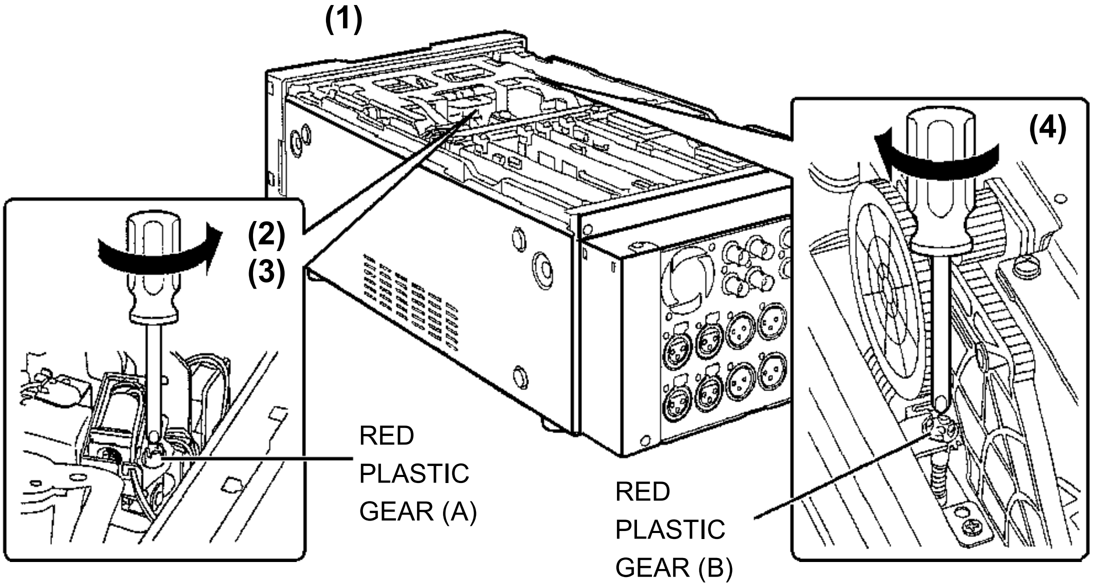
4-2. Layout of the Maintenance Parts


[3] Cleaning Arm Unit
[1] Cylinder Unit
[10] S. Tension Arm Unit
[14] A/C Head (1) Unit
[2] Pinch Arm Unit
[17] Pinch Solenoid
Cleaner Solenoid [21]
Motor Unit [15]
Mode Switch Unit [13]
Main Cam Gear Unit [22]
S4 Post Base Unit [9]
S Brake Solenoid [18]
S Reel Motor Unit [4]
[23] Reel Stopper Solenoid
[6] Capstan Unit
[12] T6 Arm Unit
[19] T Brake Solenoid
[20] MIC Rail
[16] Reel Drive Motor Unit
[7] S Loading Unit
[11] T5 Arm Unit
[5] T Reel Motor Unit
[8] T Loading Unit

5. MANUAL TAPE EJECT (EMERGENCY EJECT)

When the tape can not be ejected by normal operation because of a problem in the electrical system or the mechanical system, the tape can be removed from the unit manually by means of the following method.

1. Switch off the power and remove the upper cover.
2. Use a Philips head screw driver to push in the red plastic **gear (A)** and turn it in **counter clockwise** direction. At this time, the tape winding mechanism operates at the same time, so that the latch sound will be heard, but turning for about 10 turns should be done in this condition. (Excessive turning can place a load onto the tape and can cause tape damage.)
3. Confirm unloading for each post and that the tape has been stored completely in the cassette.
4. When the tape has returned completely into the cassette, push the plastic **gear (B)** at the front of the cassette down motor work gear, and turn it in clockwise direction to remove the cassette. (Take care that the tape is not caught when the cassette lid closes.)

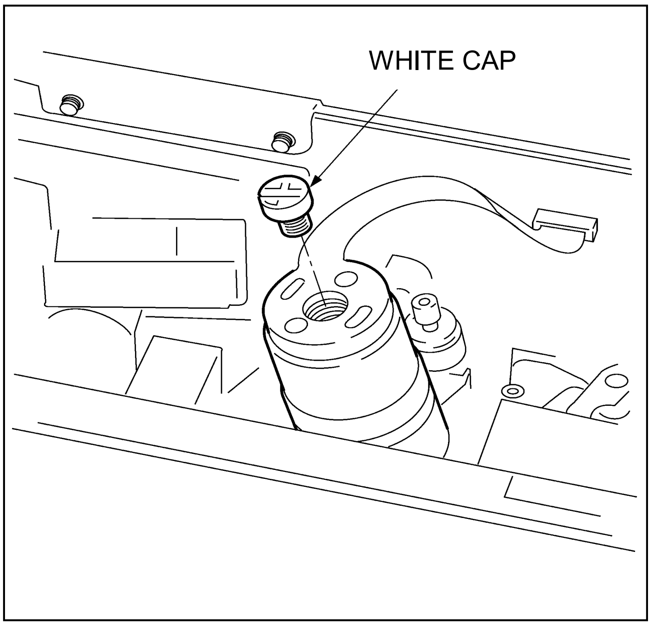


6. CYLINDER HEAD CLEANING METHOD

The cylinder head of this unit has a 3-piece construction (top, center, and bottom), and only the center cylinder with the installed head chip rotates. Accordingly, head cleaning must be performed while rotating only the center cylinder according to the following method.

NOTE: At the time of cleaning, use sufficient care not to touch the head or the cleaning roller with bare hands

1. Switch off the power and remove the upper cover.
2. Use a flat screwdriver to remove the white cap from the upper part of the cylinder, taking care not to drop it. (Refer to the following figure.)



3. Push a cleaning cloth lightly against the center cylinder (the part where the head chip is installed), insert a flat screwdriver into the hole at the center of the cylinder, and turn the center cylinder (the part where the head chip is installed) in CCW direction to perform cleaning.

NOTE: Before inserting the screwdriver into the cylinder, confirm that the center cylinder is stopped.
Take care that the screwdriver exerts no excessive force onto the cylinder unit when it is inserted.

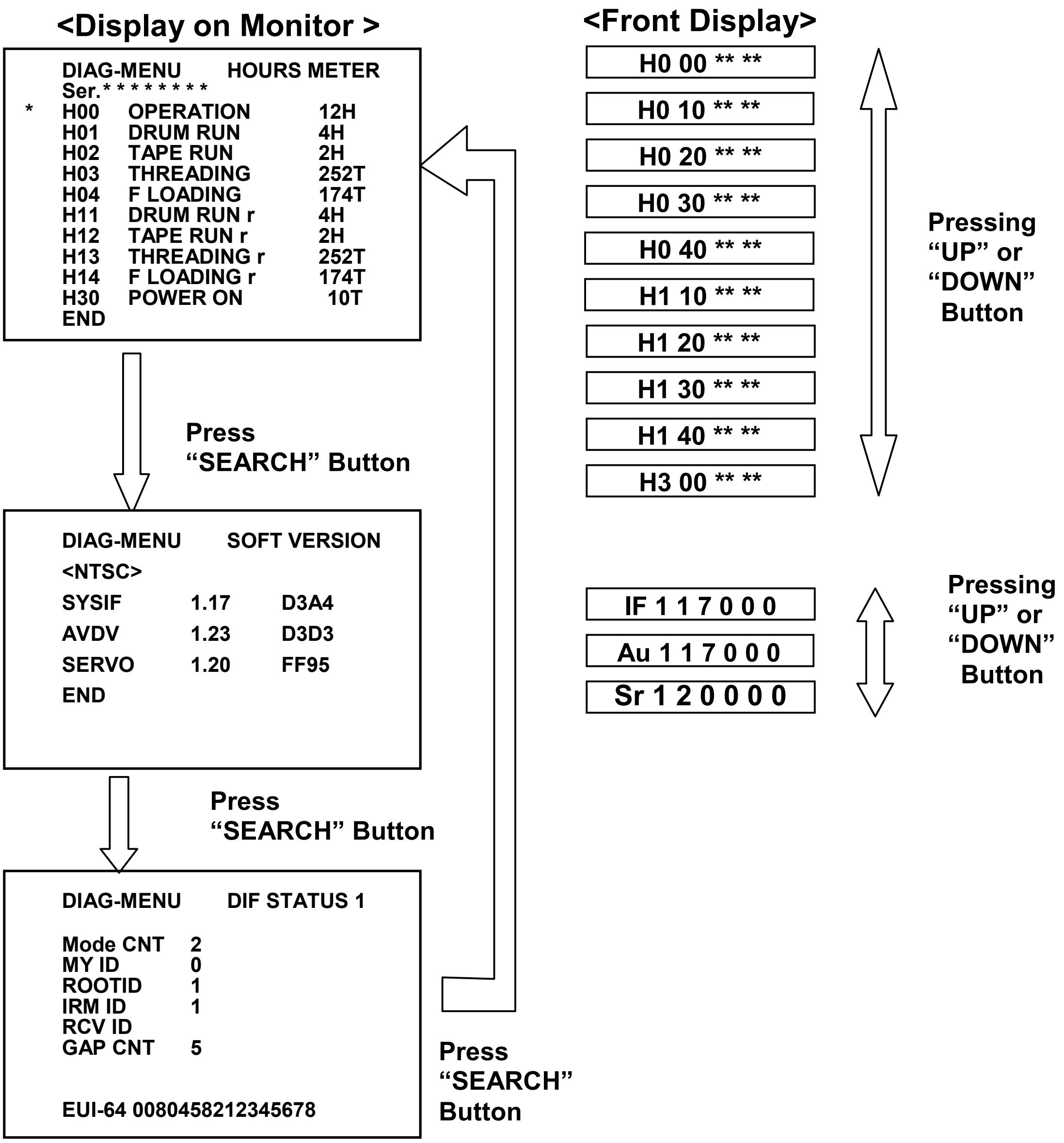
7. DIAG-MENU DISPLAY

The DIAG-MENU is the menu for investigating the status of the VTR, and it has the indicated information.

- Hour meter display (HOUR METER information)
- Software (Microcomputer) version display (SOFT VERSION information)
- DIF status and UID display (This information only displayed, when IEEE1394 IF Board (AJ-YAD120AG) has been installed.
- PLD version display (PLD VERSION information)

7-1. DIAG-MENU Operation Method

1. Press the **"EJECT"** button on the Front Panel and simultaneously set the **"LOCAL/MENU/REMOTE"** switch on the Front Panel to the **"MENU"** position so that the **"HOURS METER"** displays on the monitor and Front Display.
2. Press the **"SEARCH"** button so that the **"SOFT VERSION"** displays on the monitor TV and Front Panel.
3. Press the **"SEARCH"** button so that the **"DIF STATUS"** and **"UID Number"** are displayed on the monitor and Front Display.
4. Press the **"SEARCH"** button again then the display changes to the **"HOURS METER"** display.
5. The Diag Menu is closed by setting the **"LOCAL/MENU/REMOTE"** switch to the **"LOCAL"** or **"REMOTE"**.



```
    DIAG-MENU       HOURS METER
    Ser.* * * * * * * *
*   H00    OPERATION          12H
    H01    DRUM RUN           4H
    H02    TAPE RUN           2H
    H03    THREADING          252T
    H04    F LOADING          174T
    H11    DRUM RUN r         4H
    H12    TAPE RUN r         2H
    H13    THREADING r        252T
    H14    F LOADING r        174T
    H30    POWER ON            10T
    END
```

```
    DIAG-MENU       SOFT VERSION
    <NTSC>
    SYSIF         1.17      D3A4
    AVDV          1.23      D3D3
    SERVO         1.20      FF95
    END
```

```
    DIAG-MENU       DIF STATUS 1

    Mode CNT    2
    MY ID       0
    ROOTID      1
    IRM ID      1
    RCV ID
    GAP CNT     5


    EUI-64 0080458212345678
```

```
H0 00 ** **
H0 10 ** **
H0 20 ** **
H0 30 ** **
H0 40 ** **
H1 10 ** **
H1 20 ** **
H1 30 ** **
H1 40 ** **
H3 00 ** **
```

```
IF 1 1 7 0 0 0
Au 1 1 7 0 0 0
Sr 1 2 0 0 0 0
```

7-2. PLD Version Display

1. Turn on the VTR power.
2. Press the **“EJECT”** and **“STOP”** buttons, and simultaneously set the **“LOCAL/MENU/REMOTE”** to the **“MENU”** position.
3. Press the **“SEARCH”** Button in order to change to the **“PLD VERSION”** display.
4. When the **“LOCAL/MENU/REMOTE”** switch is set to the **“LOCAL2** or **“REMOTE”**, the VTR returns to the normal screen and display.

<Display on Monitor>

```
    DIAG-MENU      HOURS METER
    Ser.* * * * * * * *
*   H00   OPERATION        12H
    H01   DRUM RUN         4H
    H02   TAPE RUN         2H
    H03   THREADING        252T
    H04   F LOADING        174T
    H11   DRUM RUN r       4H
    H12   TAPE RUN r       2H
    H13   THREADING r      252T
    H14   F LOADING r      174T
    H30   POWER ON          10T
    END
```

⇨ **“SEARCH” Button** ⇦

```
    DIAG-MENU      PLD VERSION

    F2   APROC     VSI4283A -*-*
    F3   REC PB    VSI4285B -*-*
    F3   D I/F     VSI4288C -*-*
    F4   VOUT      VSI4286C -*-*
    F4   UDC       VSI4241B -*-*
    F5   SDI       VSI4287B -*-*
         SERVO     VSI4289A -*-*
```

<Front Display>

```
4283A * *
4285B * *
4288C * *
4286C * *
4241B * *
4287B * *
4289A * *
```

⇳ **“UP”/ “DOWN” Button**

7-3. Hours Meter Reset Procedure

1. Press the **“EJECT”** button on the Front Panel and simultaneously set the **“LOCAL/MENU/REMOTE”** switch on the Front Panel to the **“MENU”** position so that the **“HOURS METER”** displays on the monitor TV and Front Display.
2. The hours meter displays as shown below and then move the cursor **(*)** to the item with **“r”** to be reset.
3. Press the **“Reset”** button on the Front Panel so that the display changes as shown below.

```
    DIAG-MENU      HOURS METER
    Ser.   * * * * * * *
    H00   OPERATION        12H
    H01   DRUM RUN         4H
    H02   TAPE RUN         2H
    H03   THREADING        252T
    H04   F LOADING        174T
    H11   DRUM RUN r       4H
*   H12   TAPE RUN r       2H
    H13   THREADING r      252T
    H14   F LOADING r      174T
    H30   POWER ON          10T
    END
```

“RESET” Button ⇨

```
HOURS METER INIT SET

* * * * * * r OK?

YES <PLAY>/NO<STOP>
```

4. When confirming the message **“* * * * * *r OK?”**, press the **“PLAY”** button on the Front Panel, the data (***H) for the item where the cursor is located will be reset.
5. When the **“LOCAL/MENU/REMOTE”** switch is set to the position except the **“MENU”**, the VTR returns to the normal screen and display.

8. Error Rate Display and Confirmation Method

8-1. On Track Error Rate Display Procedure

1. Turn off the VTR power and turn on Pin 2 of Dip switch (SW1) on the VOUT_SYS Board (F4).
2. Turn on the VTR power and set the "LOCAL/MENU/REMOTE" switch on the front panel to the "LOCAL" so that the VTR is in the Service Menu mode.
3. Connect a monitor to the Line Output so that the Service Menu can be confirmed.
4. Set "REC INHIBIT" on the front panel to "OFF".
5. Move the cursor (*) to the "RF ADJUST" by using the "UP" and "Down" Buttons, and then press the "MODE" button.
6. Move the cursor (*) to the "HDLP PB ADJUST" by using the "UP" and "Down" Buttons, and then press the "MODE" button.
7. Move the cursor (*) to the "ECC DISPLAY" by using the "UP" and "Down" Buttons, and then select "HEAD" and press the "MODE" button.
8. Move the cursor (*) to the "PB MODE" by using the "UP" and "Down" Buttons, and then select the HEAD to be displayed the error rate.
9. Each time when the "COUNTER" button on the front panel is pressed, the display mode will be changed. (Mode 1→Mode 2→Mode 3→ ---------- Mode 6→Mode 1)
10. The error rate display is cancelled when the" LOCAL/MENU/REMOTE" switch on the front panel is selected to the "LOCAL or REMOTE".

Display Mode		**Segment Indication**	**Audio Indication**			**Indication Example**		**Indication Error Rate**
			CH1	**CH2**	**dB Indication**			
Mode 1	VIDEO L	Video L	OFF	OFF	LIT		▮▮▮▮▮▮▮▮▮▮	VIDEO L HSW-H Inner
							▮▮▮▮▮	VIDEO L HSW-L Inner
Mode 2	VIDEO R	Video r	LIT	LIT	LIT	CH1	▮▮▮▮▮▮▮▮▮▮	VIDEO L HSW-H Inner
						CH2	▮▮▮▮▮	VIDEO L HSW-L Inner
Mode 3	AUDIO1 L	Audio1 L	LIT	OFF	LIT	CH1	▮▮▮▮▮▮▮▮▮▮	AUDIO L HSW-H Inner
							▮▮▮▮▮	AUDIO L HSW-L Inner
Mode 4	AUDIO1 R	Audio1 r	OFF	LIT	LIT		▮▮▮▮▮▮▮▮▮▮	AUDIO L HSW-H Inner
						CH2	▮▮▮▮▮	AUDIO L HSW-L Inner
Mode 5	AUDIO2 L	Audio2 L	OFF	OFF	FLASH		▮▮▮▮▮▮▮▮▮▮	AUDIO L HSW-H Inner
							▮▮▮▮▮	AUDIO L HSW-L Inner
Mode 6	AUDIO2 R	Audio2 r	LIT	LIT	FLASH	CH1	▮▮▮▮▮▮▮▮▮▮	AUDIO L HSW-H Inner
						CH2	▮▮▮▮▮	AUDIO L HSW-L Inner

Note: Since R Channel Head does not exist at the time of the “RP_L12” selection, the display in the mode 2, Mode 4 and Mode 6 is invalid.

Table 8-1-1

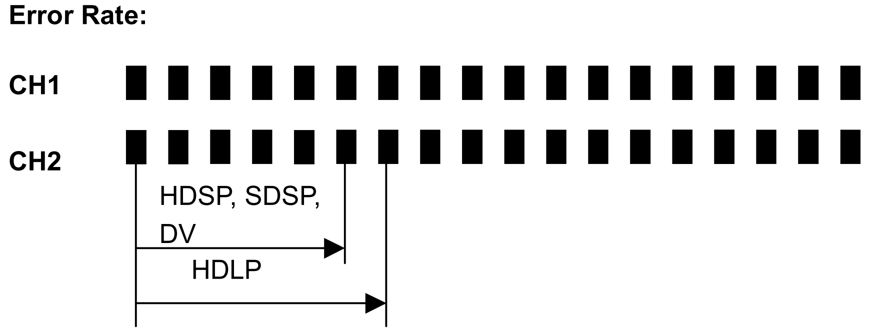
8-2. Non Track Error Rate Display Procedure (Total Error Rate/All Format)

1. Perform the steps 1 to 6 of “8-1. On Track Error Rate Display Procedure”.
2. Move the cursor **(*)** to the **“ECC DISPLAY”** by using the **“UP”** and **“Down”** Buttons, and then select **“NORMAL”** and press the **“MODE”** button.
3. The Video and Audio can be selected by pressing the **“COUNTER”** switch.
4. Each time when the **“COUNTER”** button on the front panel is pressed, the display mode will be changed from the mode 1 to 2 and 2 to 1.
5. The error rate value can be confirmed as shown figure 8-1-3.
6. The error rate display is cancelled when the” **LOCAL/MENU/REMOTE**” switch on the front panel is set to the **“LOCAL”** or **“REMOTE”**.

Display Mode		**7 Segment Indication**	**Audio Indication**			**Indication Example**		**Indication Error Rate**
			CH1	**CH2**	**dB Indication**			
Mode 1	VIDEO	Video	OFF	OFF	LIT		▮▮▮▮▮▮▮▮▮▮▮	VIDEO Lch Total
							▮▮▮▮▮	VIDEO Rch Total
Mode 2	AUDIO	Video r	LIT	LIT	LIT	CH1	▮▮▮▮▮▮▮▮▮▮▮	AUDIO Lch Total
						CH2	▮▮▮▮▮	AUDIO Rch Total

Table 8-1-2

8-3. Error Rate Display on Audio Level Meter



Mode	Segment of Audio Meter
HDLP	LED LIT : 7 Segments or Less
HDSP	LED LIT : 6 Segments or Less
SDSP	LED LIT : 6 Segments or Less
DVSP	LED LIT : 6 Segments or Less

Figure 8-1-3

9. SOFTWARE VERSION UPGRADE METHOD

This VTR uses built-in Flash ROM Microcomputers (CPU) and FPGA, CPLD IC's.
At the time of a version upgrade, use the version up tool, cables and software as shown in table 9-1.

Board	IC Type	IC Name	Name of Manufacture	Version Up Tool	Version Up Software	Version Up Procedure
REC/PB	CPU (FLASH)	AV/DV	Mitsubishi	VFK1304A	VFK1248M or higher	9-1-2
	FPGA (PLD)	REC/PB	ALTERA	VFK1304A	VFK1248M or higher	9-1-3
	PLD	REC/PB	LATTICE	VFK1590	*ispVM	9-2-3
V_OUT/SYS	CPU (FLASH)	SYS/IF	MITUBISHI	VFK1304A	VFK1248M or higher	9-1-2
	FPGA (PLD)	VOUT	XILNX	VFK1304A	VFK1248M or higher	9-1-3
SERVO	CPU (FLASH)	SERVO	Panasonic	VFK1304A	VFK1248M or higher	9-1-2
	PLD	SERVO	XILINX	VFK1590	*iMPACK	9-2-4
APROC	FPGA (PLD)	APROC	ALTERA	VFK1590	*Max Plus II	9-2-2
1394 IF (AJ-YAD120AG)	CPU (FLASH)	DIF	Mitsubishi	VFK1304A	VFK1248M or higher	9-1-2
	FPGA (PLD)	1394 IF	XILINX	VFK1590	VFK1879	9-2-5
SGEN/SDI (AJ-YA120AG)	FPGA (PLD)	SDI	ALTERA	VFK1590	*Max Plus II	9-2-2
UDC(IP_CONV) (AJ-YA120AG)	FPGA (PLD)	UDC	ALTERA	VFK1590	*Max Plus II	9-2-2

<Note> 1. The Version Up Software name with (*) should be downloaded from the manufacture's Web site.

Table 9-1

9-1. Flash ROM (Microcomputer) and PLD Version Upgrade by Flash Memory Version Up Tool (VFK1304A)

<Note>

This software will not function using Windows XP, 2000, or ME. You must use either Windows 95® or Windows 98® software to operate this Flash Memory Version Upgrade.

9-1-1. Preparations for the Version Upgrade

1. Items required for flash memory writing

Version Upgrade Software ....**VFK1248M or higher**

VFK1248M consist of 4 type of software as shown below.

- VSI2312M.exe
- f_servo.obf
- FW103u.exe
- Setting.ini

Personal Computer : WINDOWS95/98

RS-232C Cable (D-sub 25pin-25 pin cross cable or D-sub 9 pin-25 pin cross cable)

Flash Memory Version Up Tool...**VFK1304A**

2. Switch setting of the flash memory version upgrade jig

Confirm that the switch settings for the "flash memory version up tool (VFK1304A)" are as shown below.

SW1-1: ON **SW1-3: OFF**
SW1-2: ON **SW1-4: OFF**

3. Connection

1. Connect the Flash Memory Version Up Tool (VFK1304A) with Personal Computer (MS-DOS, Windows 95® or 98®) by RS-232C cross cable as shown in figure 9-1A-1.
2. Connect the flexible cable from the Flash Memory Version Up Tool to the connector on the board to be version upgraded as shown in figures 9-1A-1 and 9-1A-3.
3. Turn on the VTR power and Personal Computer power.
4. Copy the Program Data software as shown table 9-1A-2 into the personal computer.

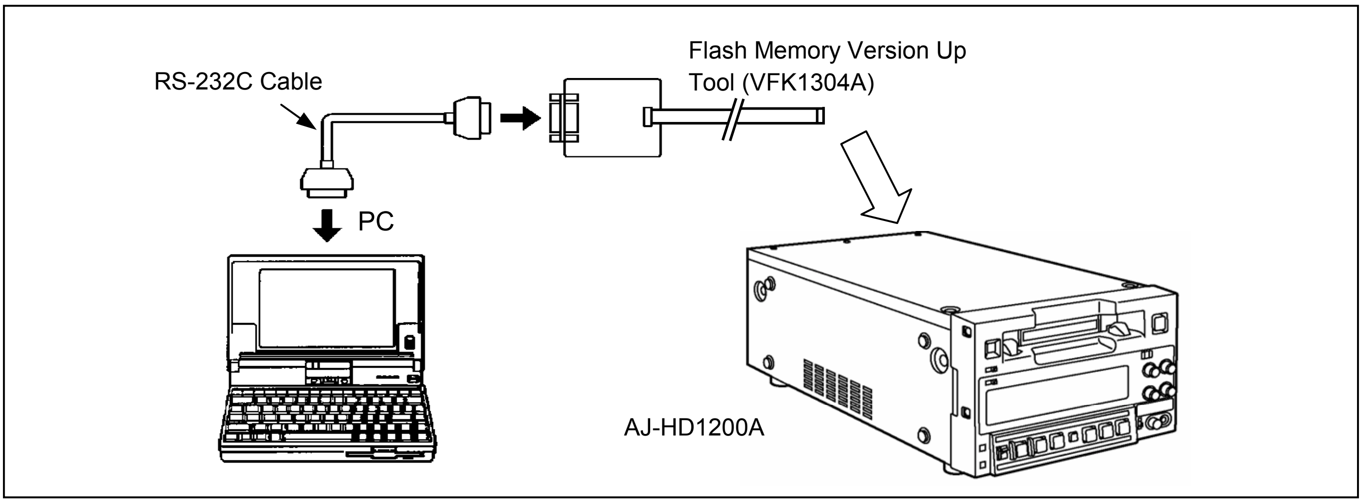

Flash Memory Version Up
Tool (VFK1304A)
RS-232C Cable
PC
AJ-HD1200A

Figure 9-1A-1

No	Board [Slot No.]	IC Name (Type)	Ref. No.	Connector	Part No. For Program Software [Version/Check Sum]
1	REC_PB [F3]	AV_DV Microcomputer (Flash)	IC652	P651	VVVSI4335A [Ver. 1.36 / CAOE]
		REC_PB (A), (PLD)	IC53, IC300		VVVSI4284D
2	VOUT/SYS [F4]	SYS_IF Microcomputer (Flash)	IC500	P501	VVVSI4336A [Ver. 1.27 / 8840]
		VOUT (PLD)	IC600		VVVSI4286D
3	SERVO [Under Mech] (RF_EQ:[F1])	SERVO Microcomputer (Flash)	IC302	P300 on SERVO Board or P3 on RF_EQ	VVVSI4281A [Ver. 1.21 / E970]
4	1394 IF [F3] (AJ-YAD120AG)	1394 IF Microcomputer (Flash)	IC50	P2	VVVSI4282D [Ver. 1.32 / 0677]

* The part number for latest program software can be confirmed by the Web site.

Table 9-1A-2

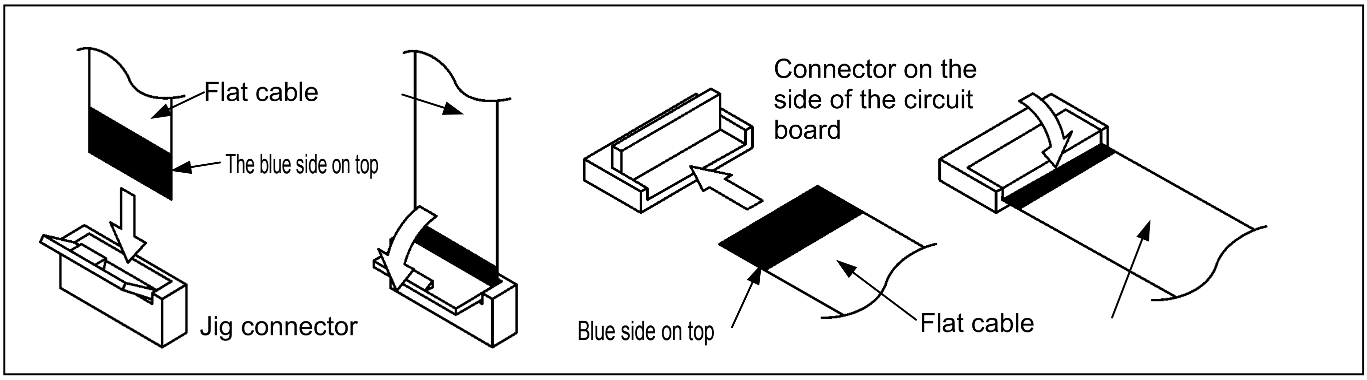

Flat cable
The blue side on top
Jig connector
Connector on the
side of the circuit
board
Blue side on top
Flat cable

Figure 9-1A-3

<BOARD LOCATION>

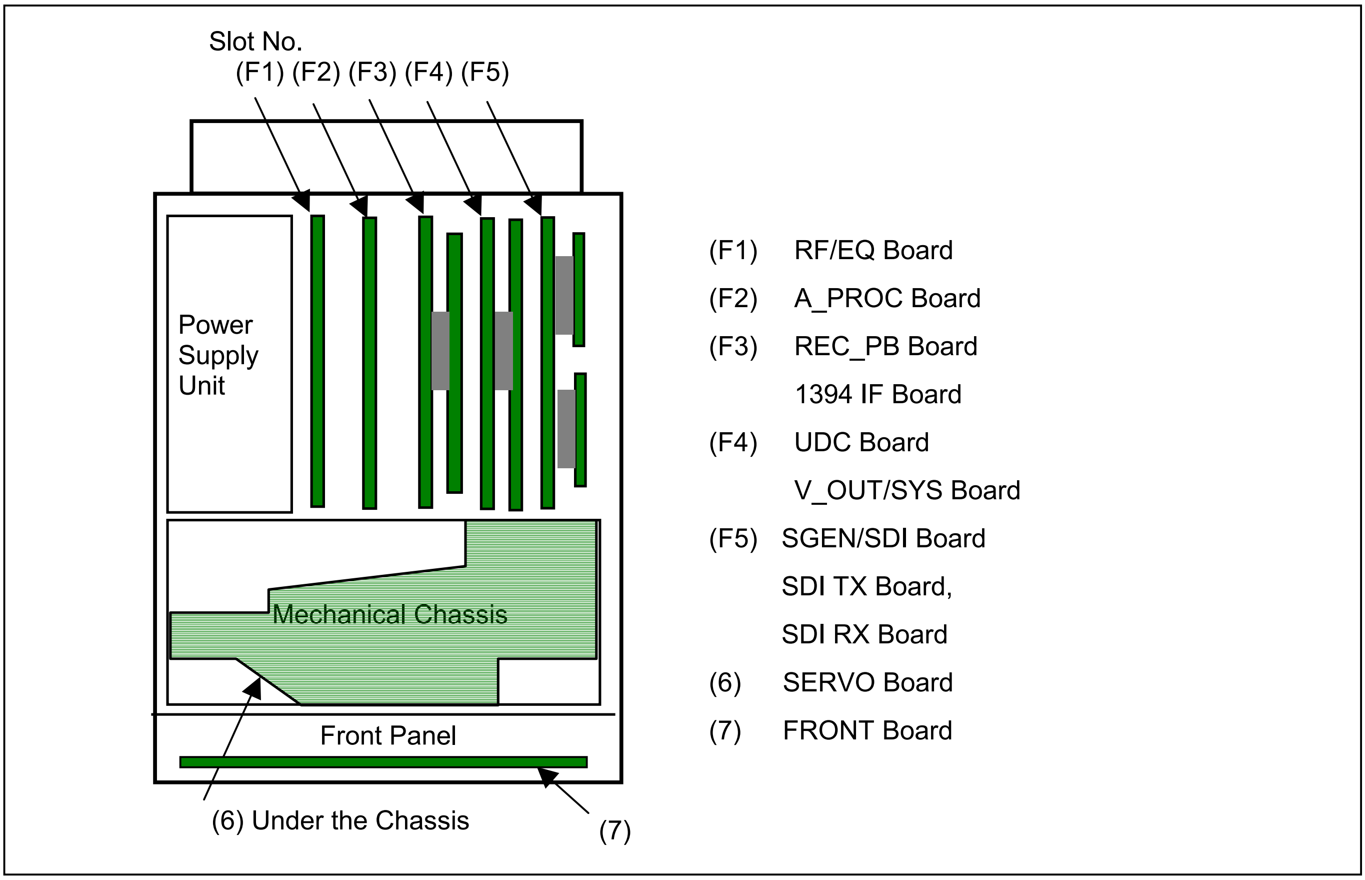
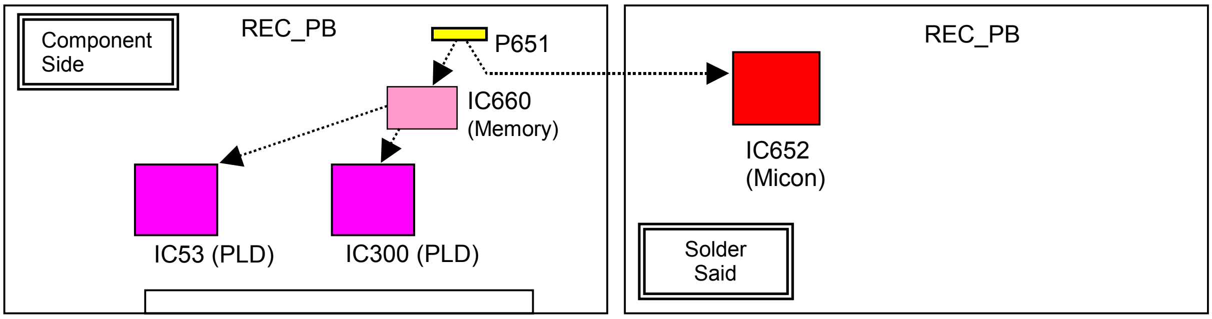

Slot No.
(F1) (F2) (F3) (F4) (F5)
Power Supply Unit
Mechanical Chassis
Front Panel
(6) Under the Chassis
(7)
(F1) RF/EQ Board
(F2) A_PROC Board
(F3) REC_PB Board
1394 IF Board
(F4) UDC Board
V_OUT/SYS Board
(F5) SGEN/SDI Board
SDI TX Board,
SDI RX Board
(6) SERVO Board
(7) FRONT Board

Figure 9-1A-4

(F3-1) REC_PB BOARD


Component Side
REC_PB
P651
IC660
(Memory)
IC53 (PLD)
IC300 (PLD)
REC_PB
IC652
(Micon)
Solder Said

1.🟨 : Communication Connector.
2.🟥 : Built-in Flash ROM Microcomputer.
3.◻ : Data Memory IC.
(Memory data is transmitted to the IC's (🟪), when turn on the VTR power.)
4.🟪 : FPGA IC.
5. After replacing the IC (🟥) or (◻), the program software should be written.
6. After replacing the microcomputer (🟪), the program writing is not necessary.

Figure 9-1A-5

(F3-2) 1394 IF BOARD

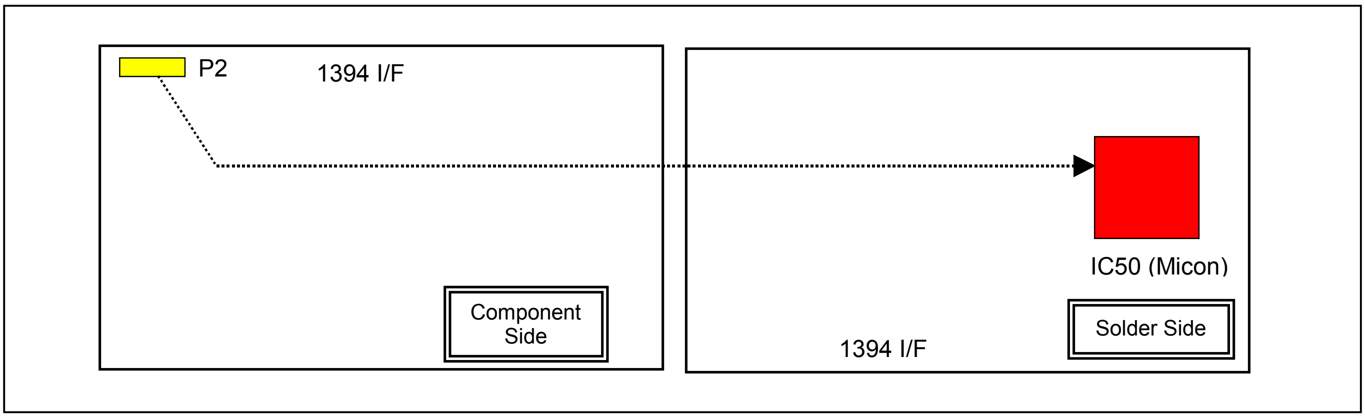
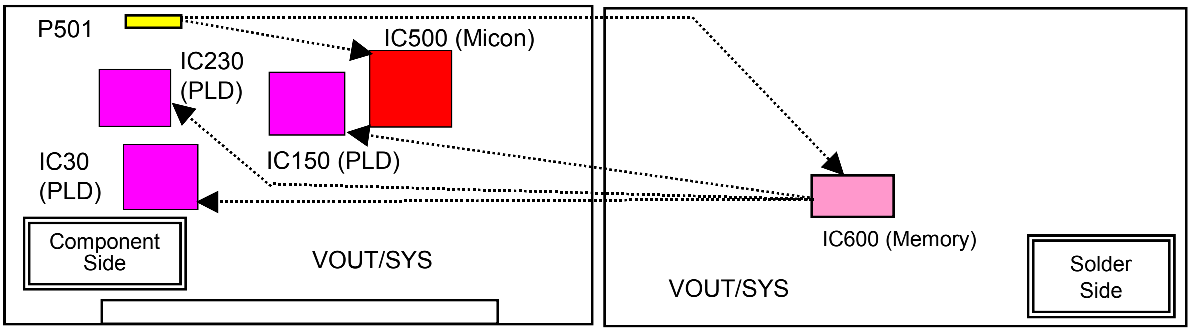

P2
1394 I/F
Component Side
IC50 (Micon)
Solder Side
1394 I/F

Figure 9-1A-6

(F4) VOUT/SYS BOARD


P501
IC500 (Micon)
IC230 (PLD)
IC150 (PLD)
IC30 (PLD)
Component Side
VOUT/SYS
IC600 (Memory)
VOUT/SYS
Solder Side

1. 🟨 : Communication Connector.
2. 🟥 : Built-in Flash ROM Microcomputer.
3. ▨ : Data Memory IC.
   (Memory data is transmitted to IC's (🟪), when turn on the VTR power.)
4. 🟪 : PLD or FPGA IC.
5. After replacing the IC (🟥) or (▨), the program software should be written.
6. After replacing the microcomputer (🟪), the program writing is not necessary.

Figure 9-1A-7

(6) SERVO BOARD

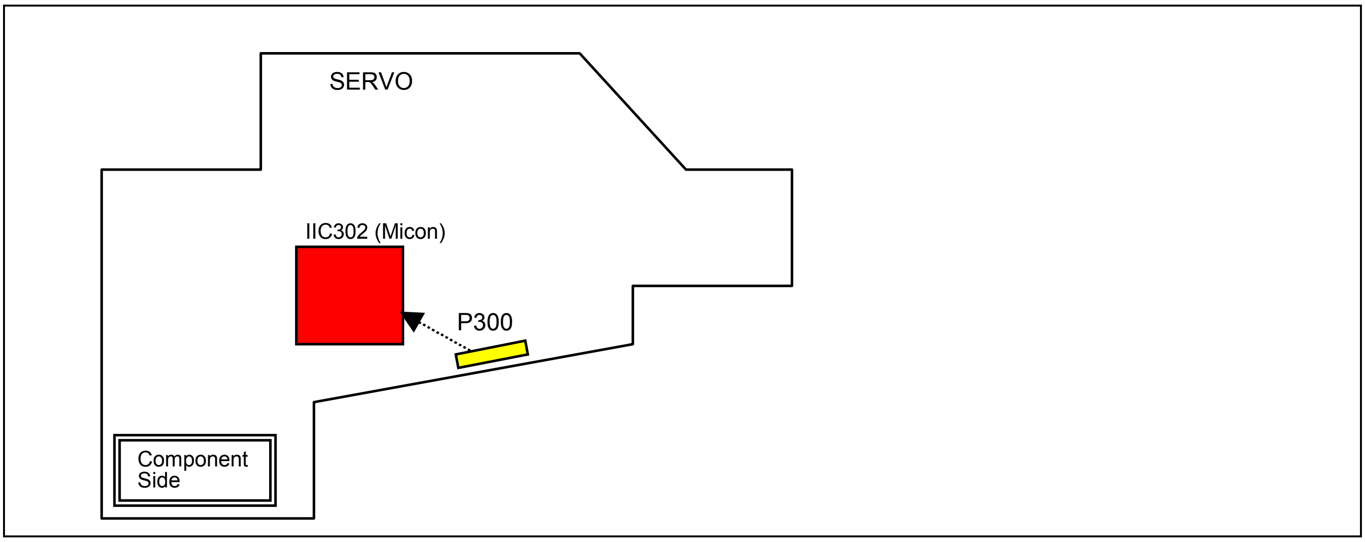
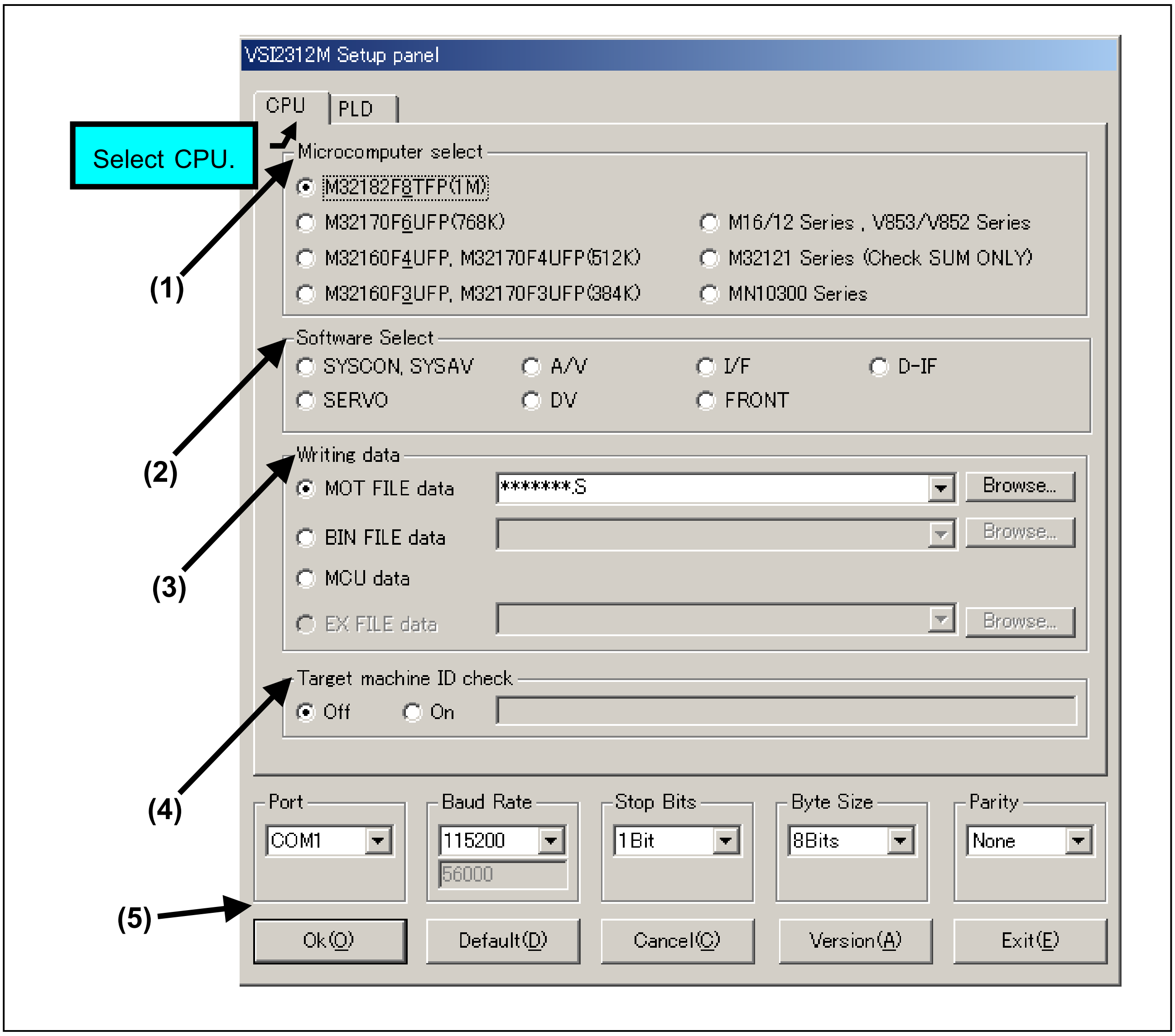

SERVO
IIC302 (Micon)
P300
Component Side

Figure 9-1A-8

9-1-2. Microcomputer Flash ROM Version Upgrade Procedure (1)

<AV_DV, SYS_IF and 1394 IF Microcomputer>

1. Copy the program software for the AV_DV, SYS_IF and 1394 IF as shown in the table 9-1A-2 into the personal computer.
2. Turn on the VTR power.
3. Execute the VSI2312M. exe so that the following screen appears.
4. Select the CPU (Microcomputer) sheet as shown in figure 9-1B-1.



VSI2312M Setup panel

CPU | PLD

Microcomputer select
● M32182F8TFP(1M)
○ M32170F6UFP(768K)
○ M32160F4UFP, M32170F4UFP(512K)
○ M32160F3UFP, M32170F3UFP(384K)
○ M16/12 Series , V853/V852 Series
○ M32121 Series (Check SUM ONLY)
○ MN10300 Series

Software Select
○ SYSCON, SYSAV ○ A/V ○ I/F ○ D-IF
○ SERVO ○ DV ○ FRONT

Writing data
● MOT FILE data: *******.S
○ BIN FILE data
○ MCU data
○ EX FILE data

Target machine ID check
● Off ○ On

Port: COM1
Baud Rate: 115200 (56000)
Stop Bits: 1Bit
Byte Size: 8Bits
Parity: None

Figure 9-1B-1

5. Select the each item on the Setup Panel as shown in the table 9-1-10.

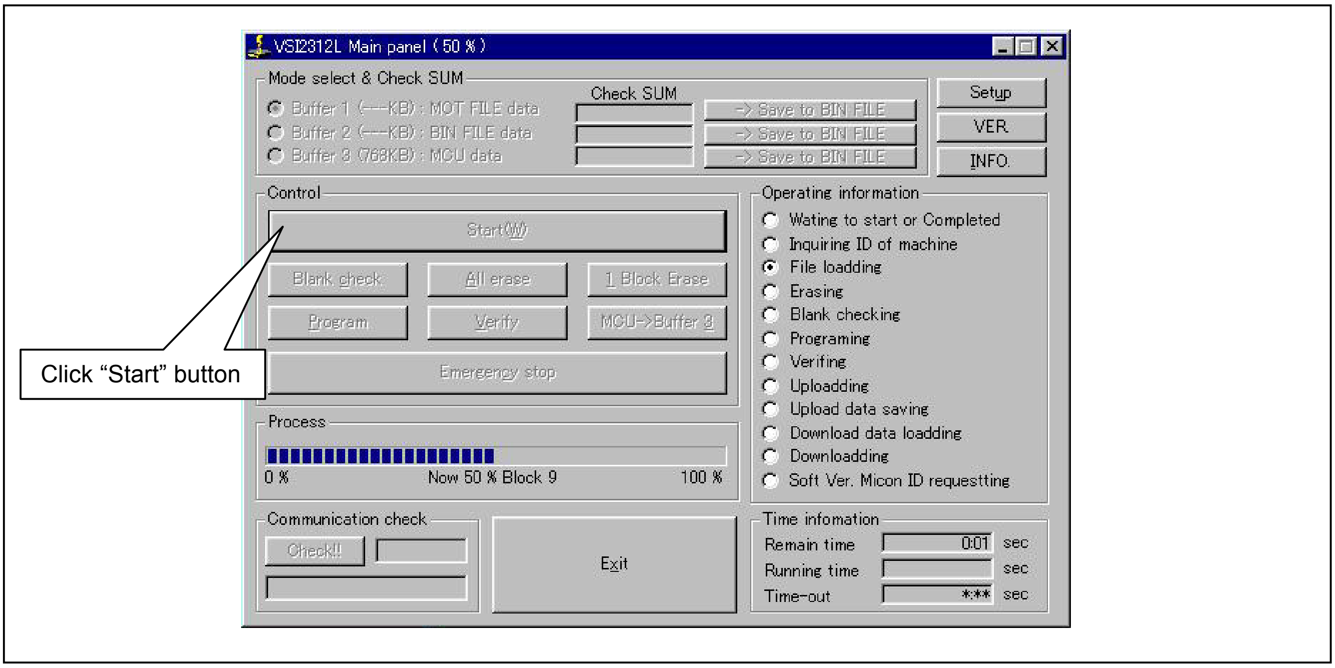
Board Name (Slot No.)	**(1) Microcomputer Select**	**(2) Software Select**	**(3) Writing data**		**(4) Target machine ID check**
			FILE data	FILE Extension	
REC_PB Board AV_DV (F3)	M32182F8TFP(1M)	Don't select any one.	MOT	.mot or s	off
VOUT/SYS Board SYS_IF (F4)	M32182F8TFP(1M)		MOT	.mot or s	off
1394 IF Board DIF (F3)	M32170F4UFP(512K)		MOT	.mot	off

(5) Setting for PC	Port	COM1	Baud Rate	115200
	Stop Bits	1Bit	Byte size	8Bits
	Parity			

* The numbers (1) – (5) in the above tables show the number in figure 9-1B-1 (Setup Panel).

Table 9-1B-2

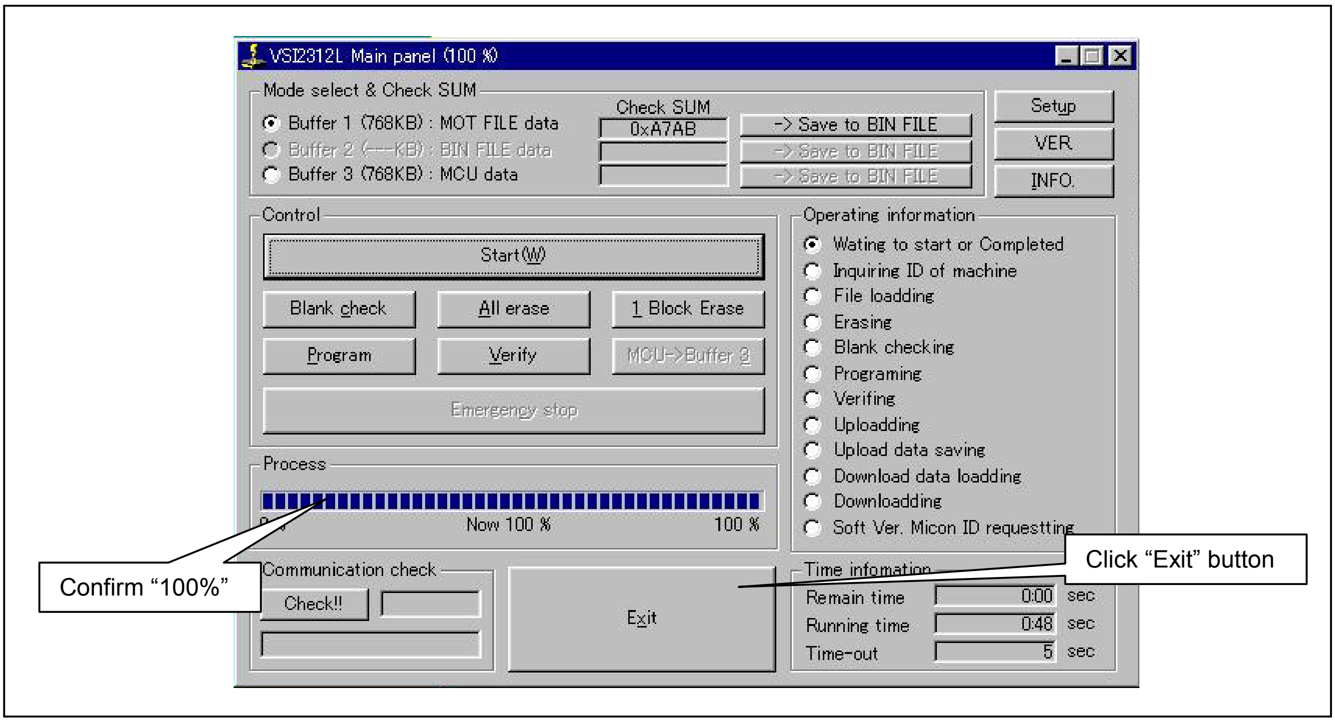
6. Press **"OK"** button so that the following screen appears and check sum is calculated.
7. Press **"Start"** button so that the software programming will start.


VSI2312L Main panel (50 %)
Mode select & Check SUM
Buffer 1 (---KB) : MOT FILE data
Buffer 2 (---KB) : BIN FILE data
Buffer 3 (768KB) : MCU data
Check SUM
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER.
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Operating information
Wating to start or Completed
Inquiring ID of machine
File loadding
Erasing
Blank checking
Programing
Verifing
Uploadding
Upload data saving
Download data loadding
Downloadding
Soft Ver. Micon ID requestting
Process
0 %
Now 50 % Block 9
100 %
Communication check
Check!!
Exit
Time infomation
Remain time
0:01
sec
Running time
sec
Time-out
***
sec

Click "Start" button

Figure 9-1B-3

8. Confirm the bar in the Process window reach to 100% that means the software programming complete as shown in figure 9-1B-4.


VSI2312L Main panel (100 %)

Mode select & Check SUM

- ● Buffer 1 (768KB) : MOT FILE data — Check SUM 0xA7AB
- ○ Buffer 2 (---KB) : BIN FILE data
- ○ Buffer 3 (768KB) : MCU data

Operating information

- ● Wating to start or Completed
- ○ Inquiring ID of machine
- ○ File loadding
- ○ Erasing
- ○ Blank checking
- ○ Programing
- ○ Verifing
- ○ Uploadding
- ○ Upload data saving
- ○ Download data loadding
- ○ Downloadding
- ○ Soft Ver. Micon ID requestting

Process: Now 100 % 100 %

Time infomation

Remain time 0:00 sec

Running time 0:48 sec

Time-out 5 sec

-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Communication check
Check!!
Exit

Confirm “100%”

Click “Exit” button

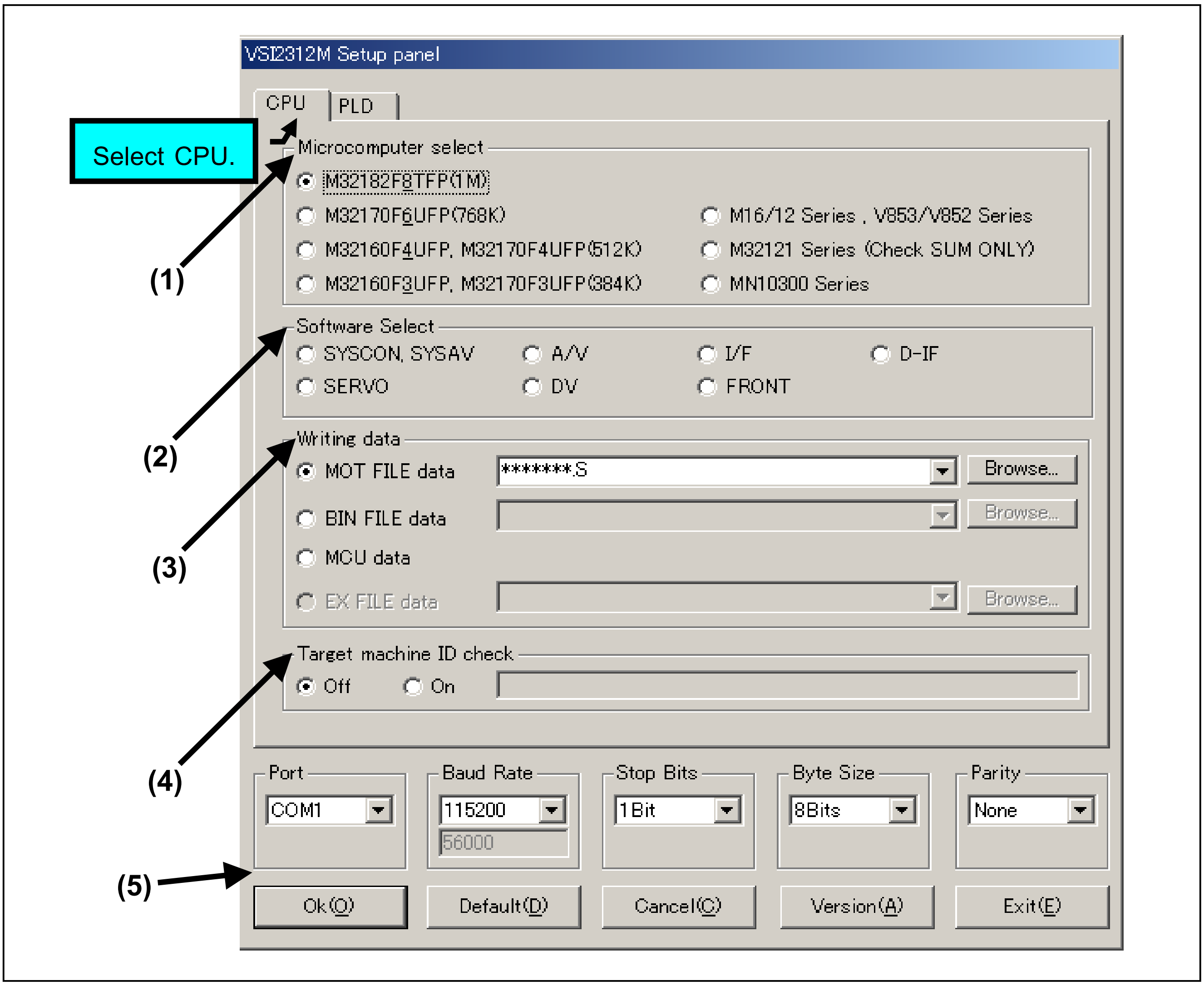
Figure 9-1B-4

9. Press **“Exit”** button to end the program.
   * If the error occurs during above process, repeat the process from step 8 again.
10. Turn the power of the VTR off and then on. This will reboot the VTR.
11. Confirm that software version is updated.

9-1-3. Microcomputer Flash ROM Version Upgrade Procedure (1)

< SERVO Microcomputer >

1. Copy the Servo program software as shown in table 9-1A-2 into the personal computer.
   For your reference, an extension of Servo program software is different from others such as AV_ DV, SYS_IF and 1394 IF.
2. Turn on the VTR power.
3. Execute the VSI2312M. exe so that the screen as shown in figure 9-1C-1 appears and then select the **"CPU"** sheet.



Microcomputer select
● M32182F8TFP(1M)
○ M32170F6UFP(768K)
○ M32160F4UFP, M32170F4UFP(512K)
○ M32160F3UFP, M32170F3UFP(384K)
○ M16/12 Series , V853/V852 Series
○ M32121 Series (Check SUM ONLY)
○ MN10300 Series

Software Select
○ SYSCON, SYSAV
○ SERVO
○ A/V
○ DV
○ I/F
○ FRONT
○ D-IF

Writing data
● MOT FILE data: *******.S
○ BIN FILE data
○ MCU data
○ EX FILE data

Target machine ID check
● Off ○ On

Port: COM1
Baud Rate: 115200 (56000)
Stop Bits: 1Bit
Byte Size: 8Bits
Parity: None

Figure 9-1C-1

4. Select the each item on the Setup Panel as shown in the table 9-1C-2.

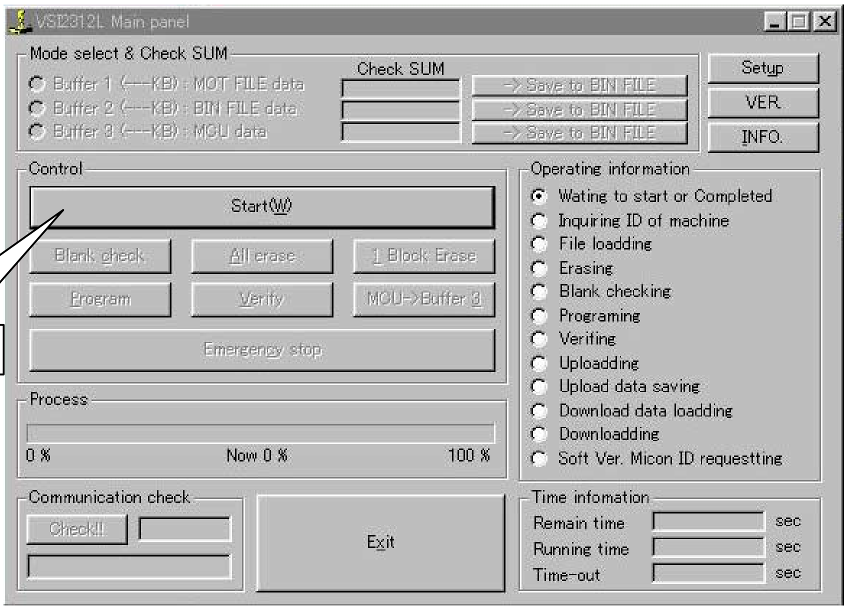
Board Name **Name of Microcomputer**	**(1) Microcomputer Select**	**(2) Software Select**	**(3) Writing data**		**(4) Target machine ID check**
			FILE data	FILE Extension	
SERVO Board SERVO (Under Mech)	MN10300 Series	Don't select any one.	EX	.ex	off

(5) Setting for PC				
	Port	COM1	Baud Rate	115200
	Stop Bits	1Bit	Byte size	8Bits
	Parity	None		

* The numbers (1) – (5) in the above tables show the number in figure 9-1C-1 (Setup Panel).

Table 9-1C-2

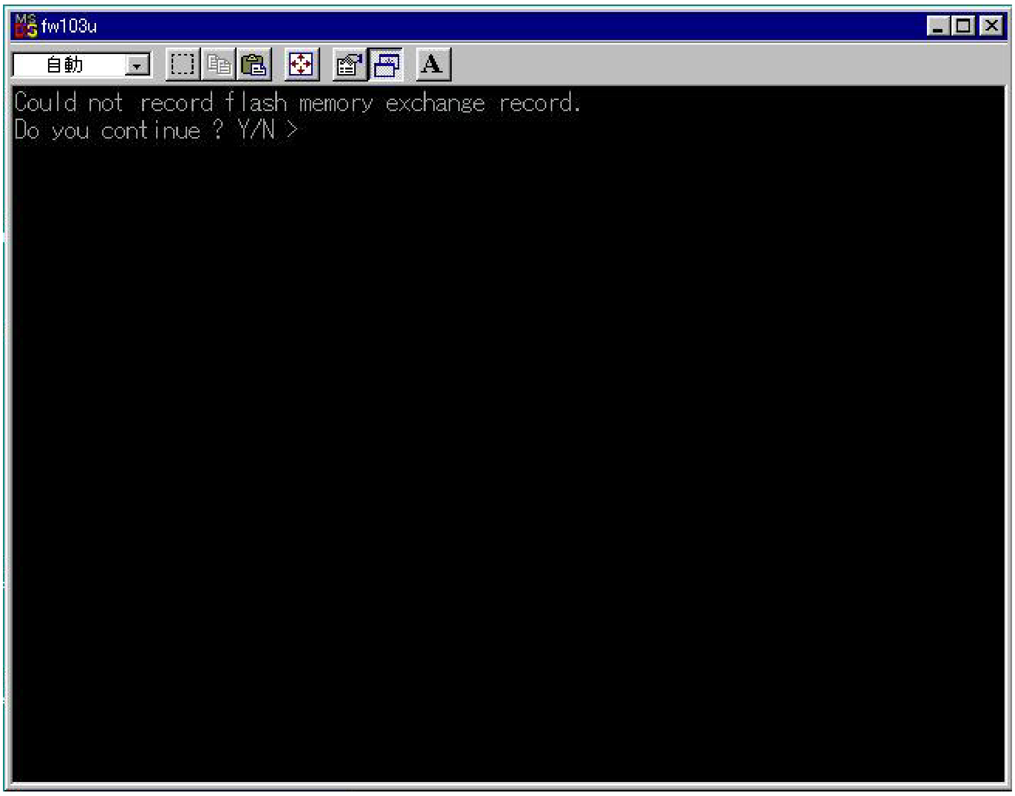
5. Press **"OK"** button so that the following screen appears and Check sum is not calculated.


VSI2312L Main panel
Mode select & Check SUM
Check SUM
○ Buffer 1 (---KB) : MOT FILE data
○ Buffer 2 (---KB) : BIN FILE data
○ Buffer 3 (---KB) : MCU data
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Process
0 %
Now 0 %
100 %
Communication check
Check!!
Exit
Operating information
● Wating to start or Completed
○ Inquiring ID of machine
○ File loadding
○ Erasing
○ Blank checking
○ Programing
○ Verifing
○ Uploadding
○ Upload data saving
○ Download data loadding
○ Downloadding
○ Soft Ver. Micon ID requestting
Time infomation
Remain time
sec
Running time
sec
Time-out
sec

Click "Start" button

Figure 9-1C-3

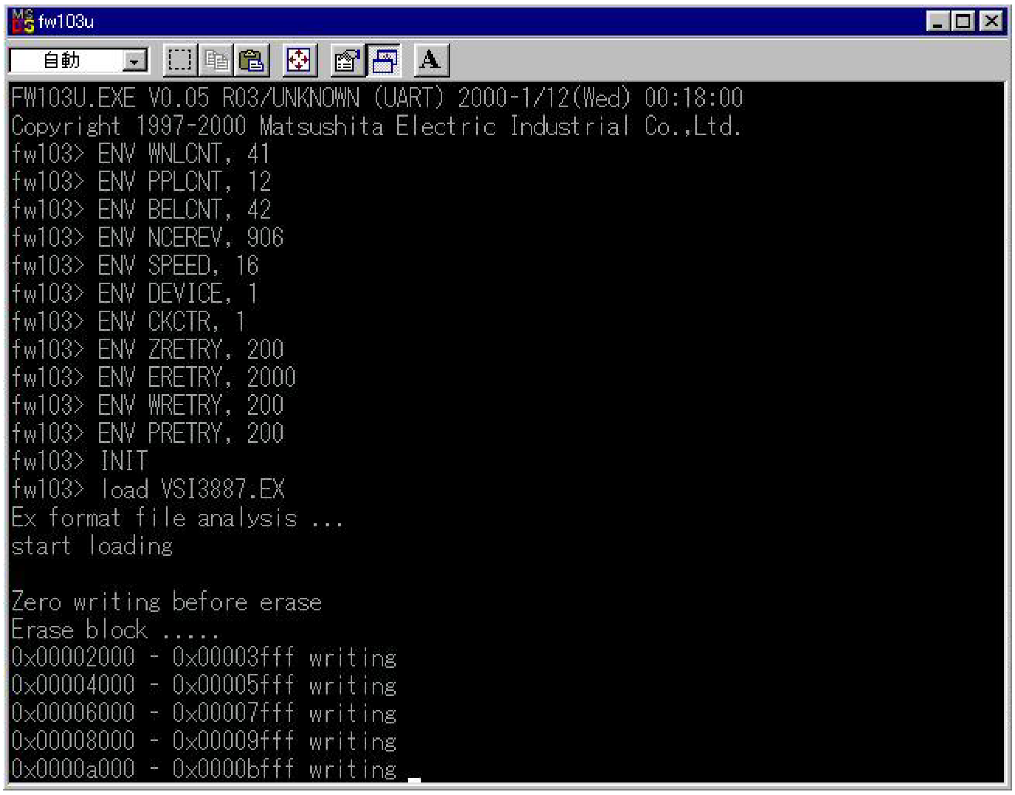
6. Click **"Start"** button as shown in figure 9-1C-3 so that the following comment appears in the MS DOS screen.
Do you continue? Y/N>



```
Could not record flash memory exchange record.
Do you continue ? Y/N >
```

Figure 9-1C-4

7. Select **“Y”** and press **“Enter”**, then the program will start.



```
FW103U.EXE V0.05 R03/UNKNOWN (UART) 2000-1/12(Wed) 00:18:00
Copyright 1997-2000 Matsushita Electric Industrial Co.,Ltd.
fw103> ENV WNLCNT, 41
fw103> ENV PPLCNT, 12
fw103> ENV BELCNT, 42
fw103> ENV NCEREV, 906
fw103> ENV SPEED, 16
fw103> ENV DEVICE, 1
fw103> ENV CKCTR, 1
fw103> ENV ZRETRY, 200
fw103> ENV ERETRY, 2000
fw103> ENV WRETRY, 200
fw103> ENV PRETRY, 200
fw103> INIT
fw103> load VSI3887.EX
Ex format file analysis ...
start loading

Zero writing before erase
Erase block .....
0x00002000 - 0x00003fff writing
0x00004000 - 0x00005fff writing
0x00006000 - 0x00007fff writing
0x00008000 - 0x00009fff writing
0x0000a000 - 0x0000bfff writing _
```

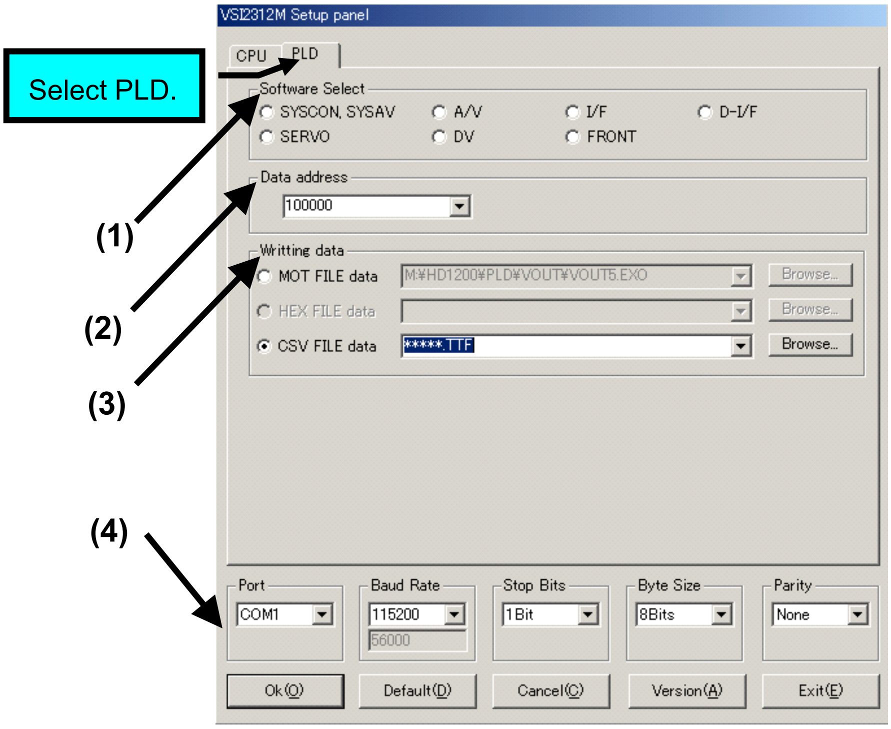
Figure 9-1C-5

8. The screen display of MS-DOS changes to Windows screen after the programming complete.
9. Press **“Exit”** button to end the program.
10. Turn the power of the VTR off and then on. This will reboot the VTR.
11. Confirm that software is updated.

9-1-4. PLD Version Upgrade Procedure

< REC_PB (A) and VOUT PLD >

1. Copy the program software for the REC_PB (A) and VOUT PLD as shown in the table 9-1A-2 into the personal computer.
2. Turn on the VTR power.
3. Execute the VSI2312M. exe so that the following screen appears.
4. Select the PLD sheet as shown in figure 9-1D-1.


Select PLD.
(1)
(2)
(3)
(4)
VSI2312M Setup panel
CPU
PLD
Software Select
○ SYSCON, SYSAV
○ A/V
○ I/F
○ D-I/F
○ SERVO
○ DV
○ FRONT
Browse...
Browse...
Browse...
Ok(O)
Default(D)
Cancel(C)
Version(A)
Exit(E)

Data address: 100000

Writting data:
○ MOT FILE data: M:¥HD1200¥PLD¥VOUT¥VOUT5.EXO
○ HEX FILE data:
● CSV FILE data: *****.TTF

Port: COM1
Baud Rate: 115200 (56000)
Stop Bits: 1Bit
Byte Size: 8Bits
Parity: None

Figure 9-1D-1

5. Select the each item on the Setup Panel as shown table 9-1-19.

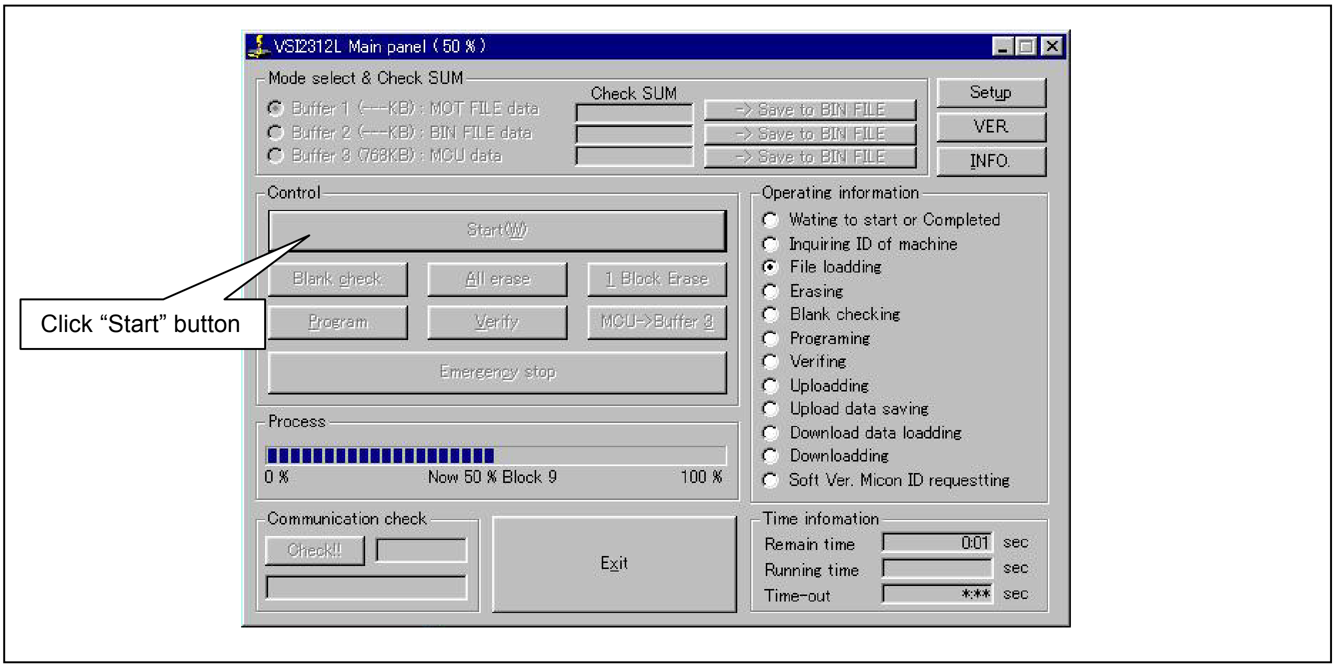
Boad Name Name of Microcomputer (Slot No.)	**(1) Microcomputer Select**	**(2) Software Select**	**(3) Writing data**	
			MOT FILE data	**CSV FILE data**
REC_PB Board AV/DV (F3)	Don't select any one.	100000	CSV	.ttf
VOUT/SYS Board SYS/IF (F4)		200000	MOT	.exo

(4) Setting for PC	Port	COM1	Baud Rate	115200
	Stop Bits	1Bit	Byte size	8Bits
	Parity	None		

* The numbers (1) – (4) in the above tables show the number in figure 9-1D-1 (Setup Panel).

Table 9-1D-2

6. Click **"OK"** button so that the following screen appears and check sum is calculated.
7. Click **"Start"** button so that the software programming will start.


VSI2312L Main panel (50 %)
Mode select & Check SUM
Buffer 1 (---KB) : MOT FILE data
Buffer 2 (---KB) : BIN FILE data
Buffer 3 (768KB) : MCU data
Check SUM
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER.
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Process
0 %
100 %
Operating information
Wating to start or Completed
Inquiring ID of machine
File loadding
Erasing
Blank checking
Programing
Verifing
Uploadding
Upload data saving
Download data loadding
Downloadding
Soft Ver. Micon ID requestting
Communication check
Check!!
Exit
Time infomation
sec
sec
sec

Now 50 % Block 9

● File loadding

Remain time 0:01 sec

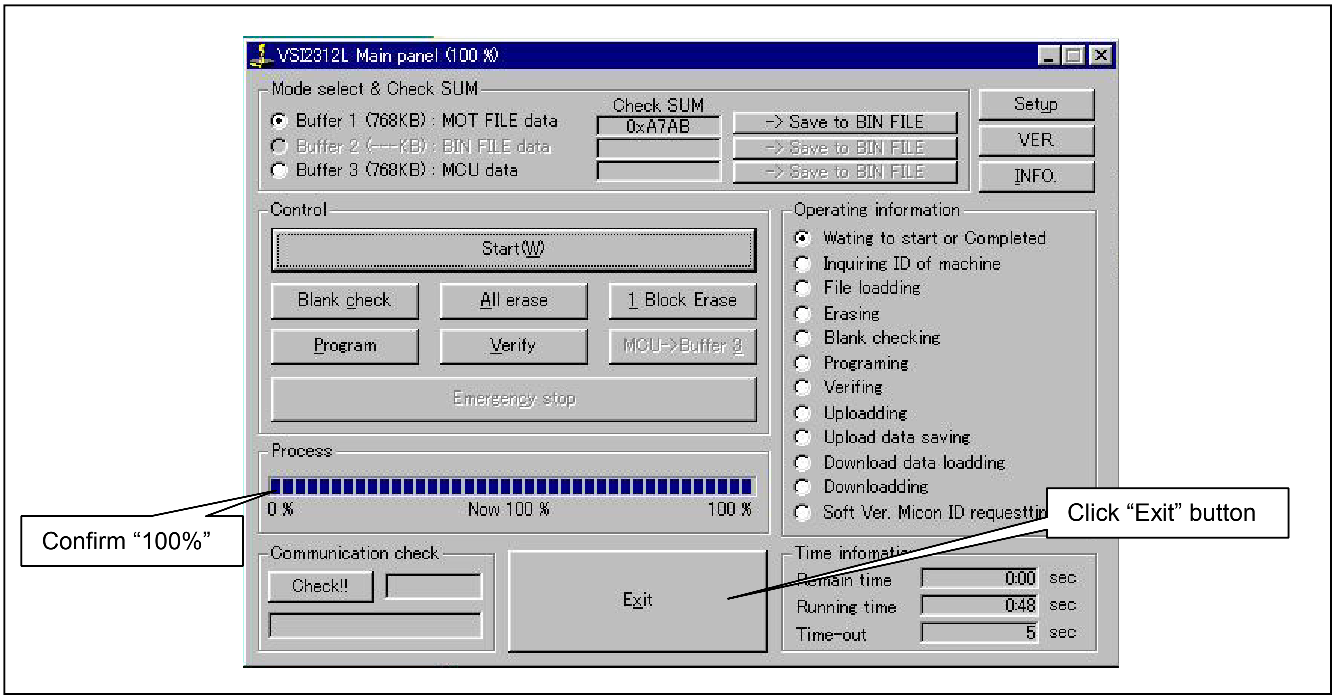
Running time sec

Time-out *:** sec

Click "Start" button

Figure 9-1D-3

8. Confirm the bar in the Process window reach to 100% that means the software programming complete as shown in figure 9-1D-4.


VSI2312L Main panel (100 %)
Mode select & Check SUM
Buffer 1 (768KB) : MOT FILE data
Buffer 2 (---KB) : BIN FILE data
Buffer 3 (768KB) : MCU data
Check SUM
-> Save to BIN FILE
-> Save to BIN FILE
-> Save to BIN FILE
Setup
VER.
INFO.
Control
Start(W)
Blank check
All erase
1 Block Erase
Program
Verify
MCU->Buffer 3
Emergency stop
Process
0 %
100 %
Operating information
Wating to start or Completed
Inquiring ID of machine
File loadding
Erasing
Blank checking
Programing
Verifing
Uploadding
Upload data saving
Download data loadding
Downloadding
Soft Ver. Micon ID requestting
Communication check
Check!!
Exit
Time infomation
sec
sec
sec

● Buffer 1 (768KB) : MOT FILE data

Check SUM 0xA7AB

Now 100 %

● Wating to start or Completed

Remain time 0:00 sec

Running time 0:48 sec

Time-out 5 sec

Confirm "100%"

Click "Exit" button

Figure 9-1D-4

9. Click **"Exit"** button to end the program.
   * If the error occurs during above process, repeat the process from step 8 again.
10. Turn off and on the power of VTR in order to reboot the machine.
11. Confirm that the software version is updated.
12. Turn off the VTR power and remove the Flash memory version up tool and cables.

9-2. CPLD Version Upgrade by CPLD Writer (VFK1590)

9-2-1. Connection

1. Connect the D-sub cable between the CPLD writer and personal computer as shown in figure 9-2A-1. The reference number of D-sub connector can be referred by table 9-2A-2.
2. Connect the CPLD writer cable to the connector on the CPLD writer (VFK1590) as shown in figure 9-2A-1. The part number of cable and reference number of connector can be referred by table 9-2A-2.

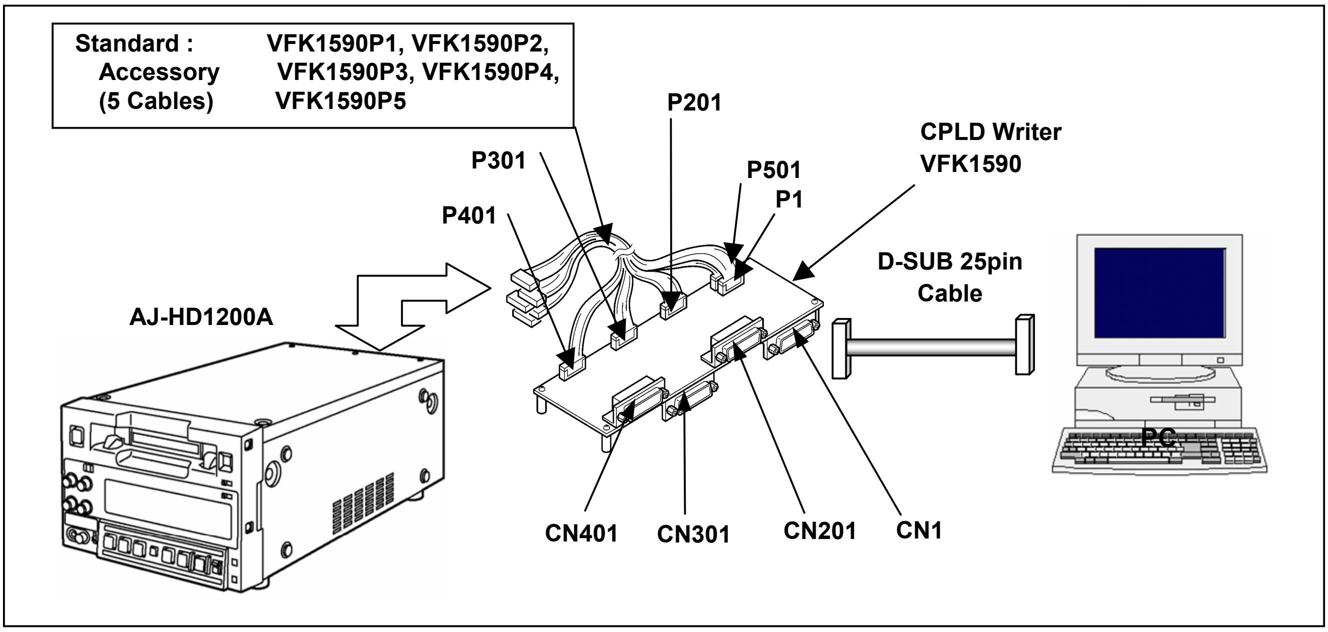

Standard : Accessory (5 Cables)
VFK1590P1, VFK1590P2, VFK1590P3, VFK1590P4, VFK1590P5
P201
P301
P401
P501
P1
CPLD Writer VFK1590
D-SUB 25pin Cable
AJ-HD1200A
PC
CN401
CN301
CN201
CN1

Figure 9-2A-1

IC Manufacture	Connection Between PC / CPLD Writer		Connection Between CPLD Writer / Board	
	Connection Cable	Connector Ref.	Connection Cable	Connector on CPLD Writer
VANTICE	D-SUB 25pin Straight Cable	CN1	VFK1590P1	P1
ALTERA		CN201	VFK1590P2	P201
LATTICE		CN301	VFK1590P3A	P301
XILINX		CN401	VFK1590P4	P401
PHILIPS		CN1	VFK1590P5	P501

* VFK1590P3A is not standard accessory of VFK1590.

▨ : The CPLD which has been used in this VTR.

Table 9-2A-2

3. Connect the PLD writer cable from the PLD writer to the connector on the Board to be upgraded as shown in the table 9-2A-3.
4. Turn on the VTR power and Personal Computer.

Board [Slot No.]	Name of IC	IC Manufacture	Writing Tool	Version Up Software
PROC [F2]	APROC PLD	ALTERA	VFK1590 (CPLD Writer)	Max+plus II
EC_PB [F3]	REC_PB(B) PLD	LATTICE		ispVM System
ERVO [Under Mech]	SERVO PLD	XILINX (1)		Webpack
GEN_SDI [F5] (Option: AJ-YA120AG)	SDI PLD	ALTERA		Max+plus II
DC [F5] (Option: AJ-YA120AG)	UDC PLD	ALTERA		Max+plus II
IF [F3] (Option: AJ-YAD120AG)	1394 PLD	XILINX (2)		VFK1879

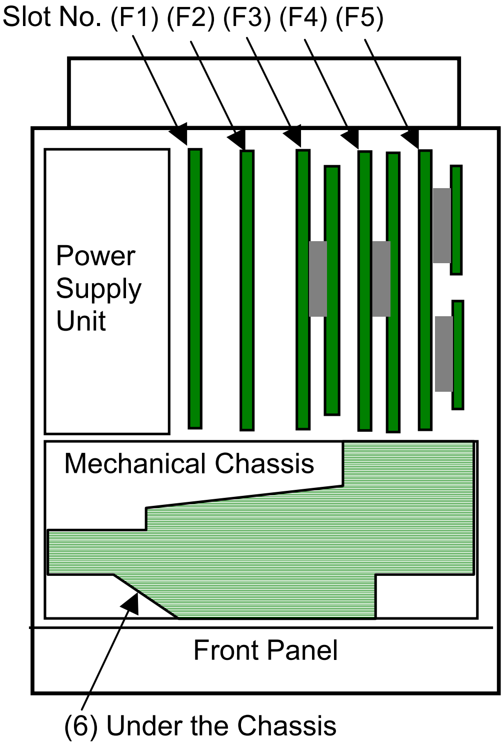
Table 9-2A-3

Board [Slot No.]	Name of PLD	Manufacture	IC Ref, No.	Ref. No.	Data Part No.
APROC [F2]	APROC PLD	ALTERA	IC7	P4002	VVVSI4283A
REC_PB [F3]	REC_PB(B) PLD	LATTICE	IC450, IC551, IC557	P3	VVVSI4285B
SERVO [Under Mech]	SERVO PLD	XILINX	IC350	P350	VVVSI4289A
SGEN_SDI [F5] (Option: AJ-YA120AG)	SDI PLD	ALTERA	IC613	P3	VVVSI4287B
UDC [F5] (Option: AJ-YA120AG)	UDC PLD	ALTERA	IC340, IC600	P700	VVVSI4241B
1394 IF [F3] (Option: AJ-YAD120AG)	1394 PLD	XILINX	IC503 (IC450,IC150)	P500	VVVSI4288C

* The part number of latest version of program software can be confirmed by the Web

Table 9-2A-4

<BOARD LOCATION>


Slot No. (F1) (F2) (F3) (F4) (F5)
Power Supply Unit
Mechanical Chassis
Front Panel
(6) Under the Chassis

(F1)	RF/EQ Board
(F2)	A_PROC Board
(F3)	REC_PB Board
	1394 IF Board (AJ-YAD120AG)
(F4)	UDC Board (AJ-YA120AG)
	V_OUT/SYS Board
(F5)	SGEN/SDI Board (AJ-YA120AG)
	SDI TX Board, SDI RX Board
	(AJ-YA120AG)
(6)	SERVO Board

Figure 9-2A-5

(F2) A PROC BOARD

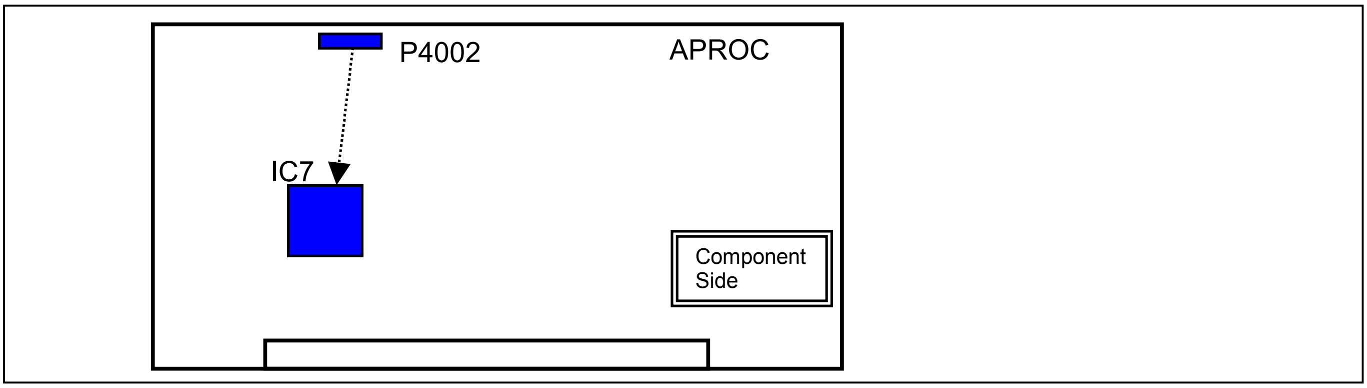

P4002
APROC
IC7
Component
Side

Figure 9-2A-6

(F3) REC PB BOARD

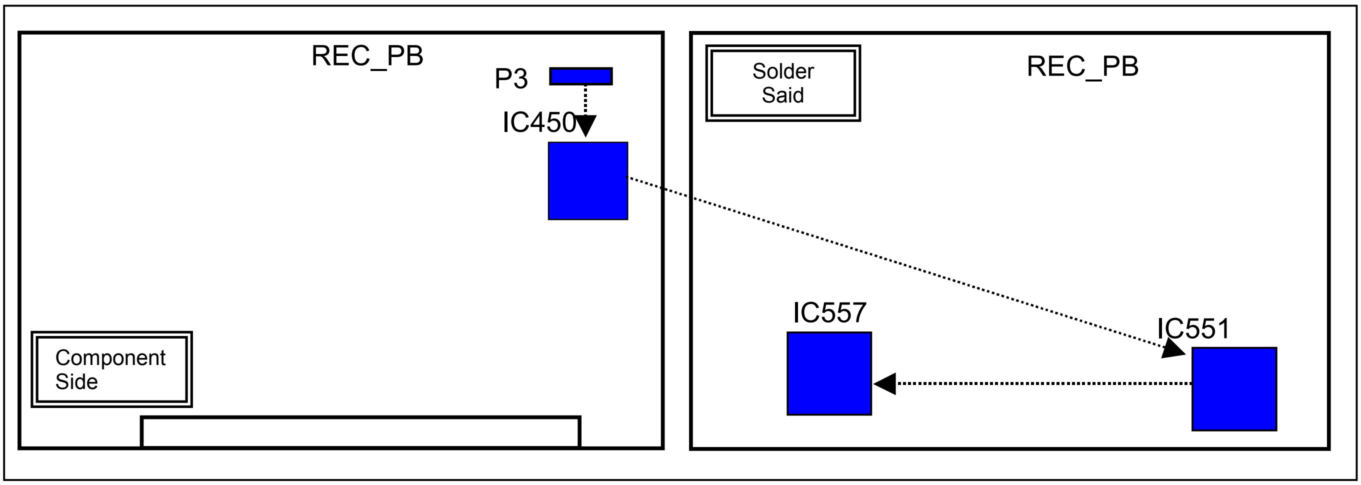

REC_PB
P3
IC450
Component
Side
Solder
Said
REC_PB
IC557
IC551

Figure 9-2A-7

(F3) 1394 IFBOARD

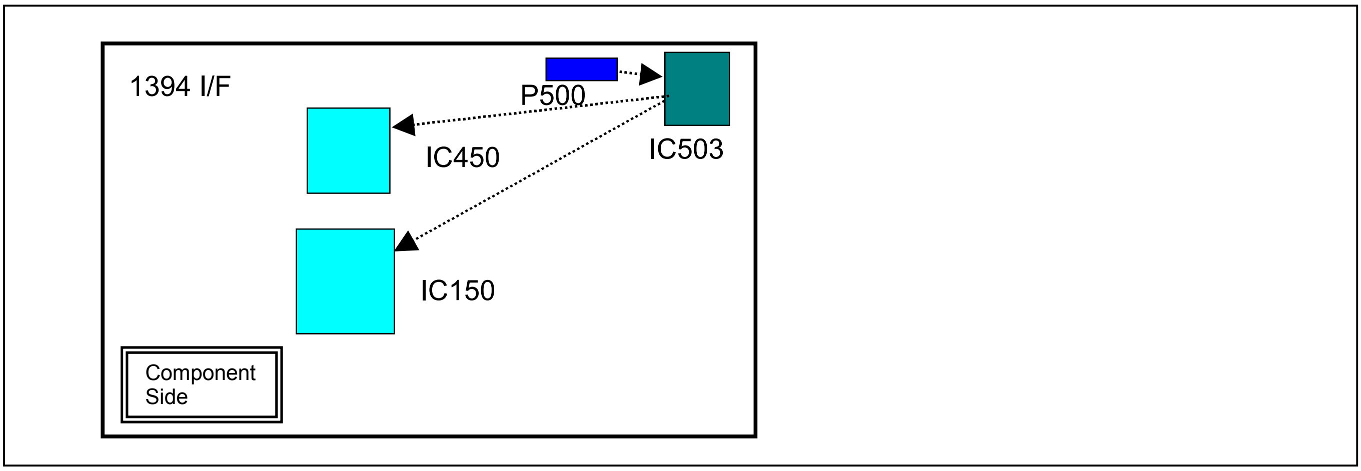

1394 I/F
P500
IC450
IC503
IC150
Component
Side

Figure 9-2A-8

(F4) UDCBOARD

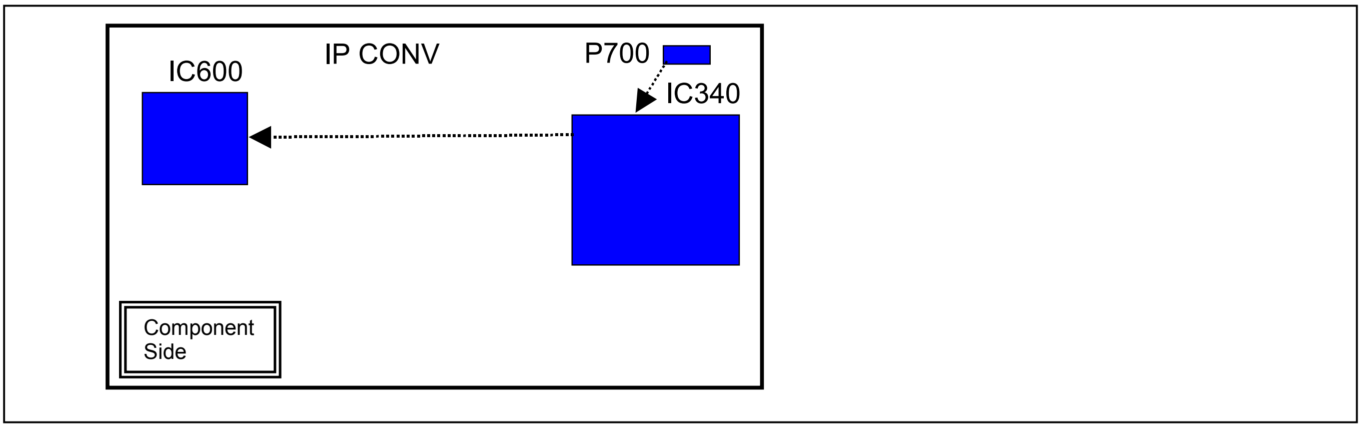

IP CONV
IC600
P700
IC340
Component Side

Figure 9-2A-9

(F5) SGEN SDI BOARD

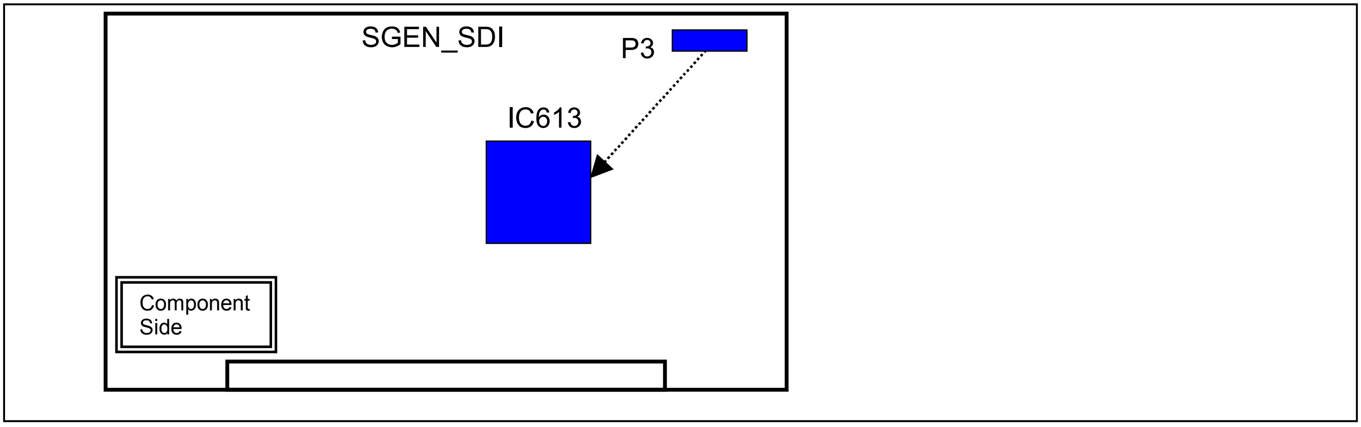

SGEN_SDI
P3
IC613
Component Side

Figure 9-2A-10

(6) SERVO BOARD

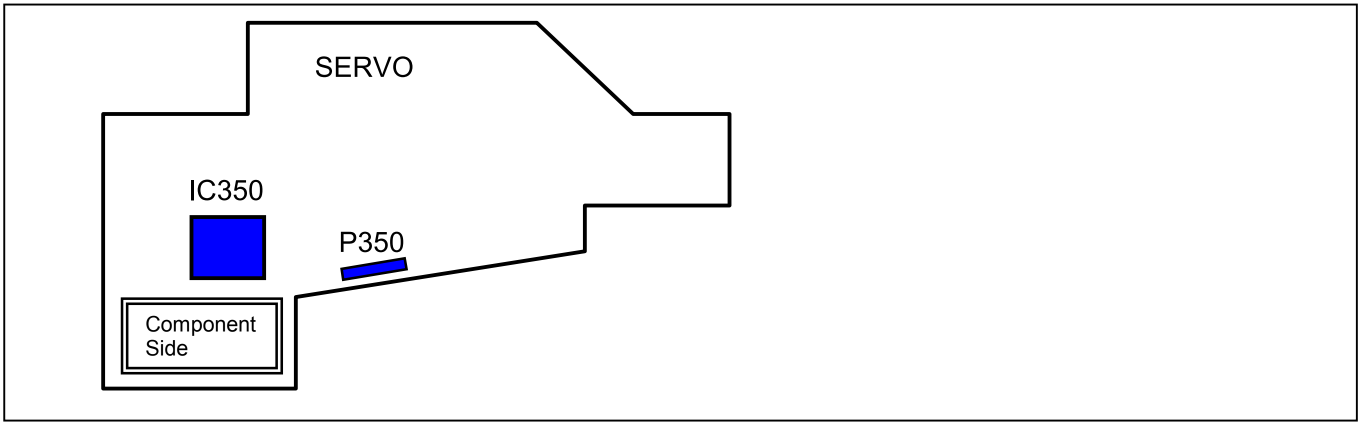

SERVO
IC350
P350
Component Side

Figure 9-2A-11

9-2-2. CPLD Version Upgrade Method (ALTERA)
< APRO, SDI, UDC CPLD IS's>

A. Preparation

ITEM	REMARK
CPLD Writer	VFK1590 VFK1590P2 (Standard Accessory of VFK1590)
D-sub 25pin-25pin Cable	Straight (Mail-Female), Length: Within 1m
Version Upgrade Software	MAX+plus II Software ver9.6 or over ver9.6 (Please access to www.altera.com/support/software/download/sof-download_center.html)
File NAME	jcf File (Included in “vvvsi xxxx” file). (Copy all files of the VVVSI4283A, VVVSI4287B and VVVSI4241B which is included " .jct " file to floppy disk)
Personal Computer	WINDOWS 95® or 98®

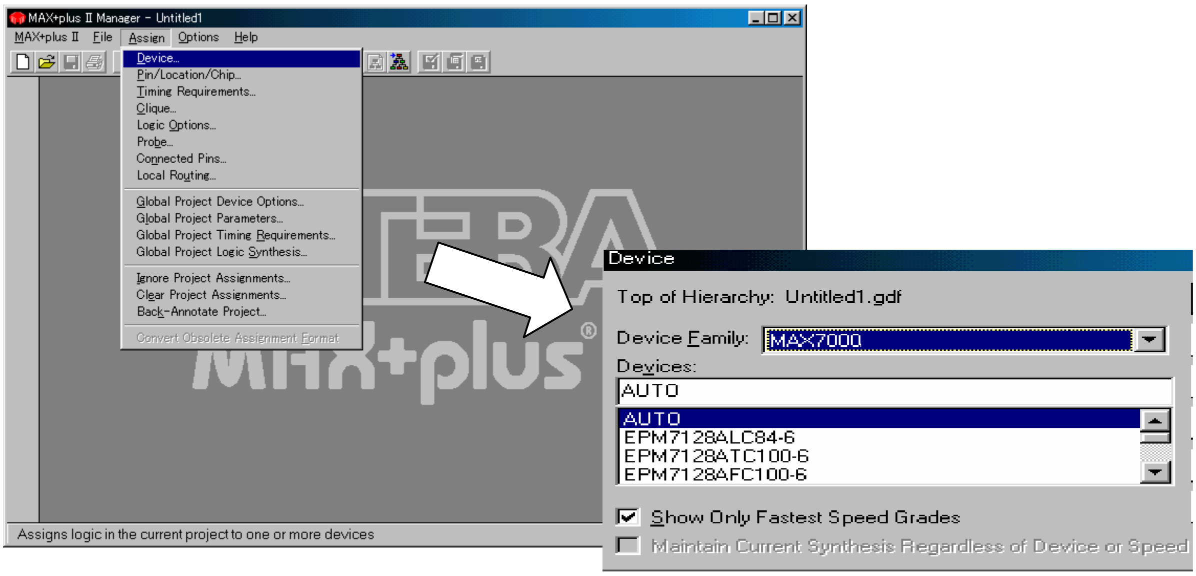
Table 9-2B-1

B. Connection

1. Connect the D-sub Cable between CN201(for ALTERA) connector of the CPLD WRITER (VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P2) between the connector at the Board in the VTR as shown in table 9-2A-4 and connector of the CPLD writer as shown in table 9-2A-3.
3. Turn on the VTR and Personal Computer (Windows mode).

C. Boot up the Ver. up Software and Ver. up Procedure

1. Select "start button" on the Windows Screen and then "Program" and then boot up the "MAX+plus II *** programmer only" so that the following menu appears.
2. On main window, select tab "Assign" and then "Device" → "MAX700"(Device Family) →"AUTO".
3. Insert floppy disk (which is includes all files of the program software VVVSI*** as shown in table 9-2A-4) to floppy drive.


MAX+plus II Manager - Untitled1
MAX+plus II
File
Assign
Options
Help
Device...
Pin/Location/Chip...
Timing Requirements...
Clique...
Logic Options...
Probe...
Connected Pins...
Local Routing...
Global Project Device Options...
Global Project Parameters...
Global Project Timing Requirements...
Global Project Logic Synthesis...
Ignore Project Assignments...
Clear Project Assignments...
Back-Annotate Project...
Convert Obsolete Assignment Format
MAX+plus
Assigns logic in the current project to one or more devices
Device
EPM7128ALC84-6
EPM7128ATC100-6
EPM7128AFC100-6
Maintain Current Synthesis Regardless of Device or Speed

Top of Hierarchy: Untitled1.gdf

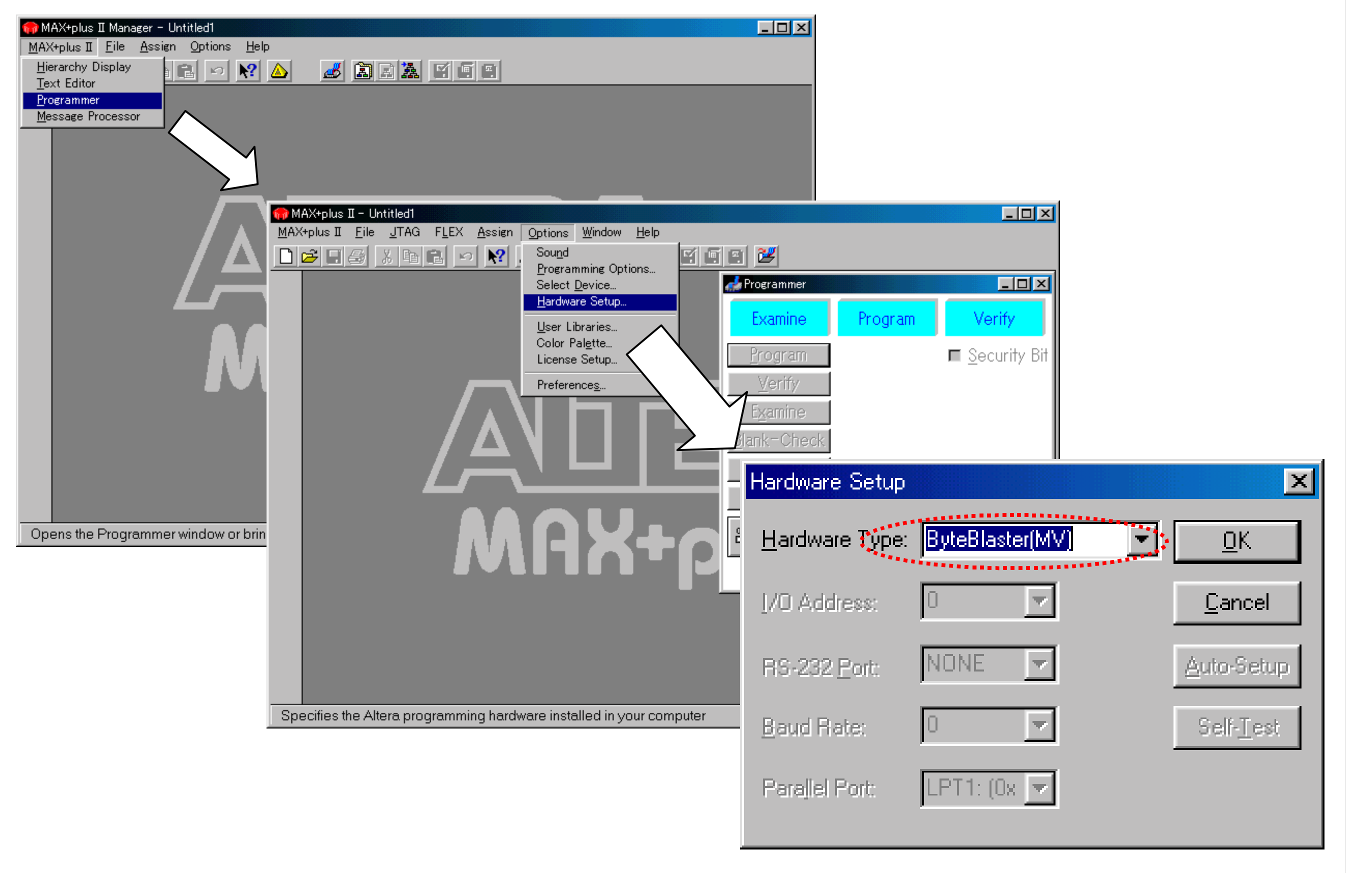
Device Family: MAX7000

Devices: AUTO

☑ Show Only Fastest Speed Grades

Figure 9-2B-2

4. On main window, select tab **“MAX+plus II”** and then **“Programmer”**.
5. On main window (Programmer window is displayed), select tab **“Option”** and then **“Hardware Setup”**.
6. On **Hardware Setup** dialog, set the **“Hardware Type”** to **“Byte Blaster (MV)** ”.


MAX+plus II Manager - Untitled1
MAX+plus II
File
Assign
Options
Help
Hierarchy Display
Text Editor
Programmer
Message Processor
MAX+plus II - Untitled1
MAX+plus II
File
JTAG
FLEX
Assign
Options
Window
Help
Sound
Programming Options...
Select Device...
Hardware Setup...
User Libraries...
Color Palette...
License Setup...
Preferences...
Programmer
Examine
Program
Verify
Security Bit
Program
Verify
Examine
Blank-Check
Hardware Setup
OK
Cancel
Auto-Setup
Self-Test

Opens the Programmer window or brin

Specifies the Altera programming hardware installed in your computer

Hardware Type: ByteBlaster(MV)

I/O Address: 0

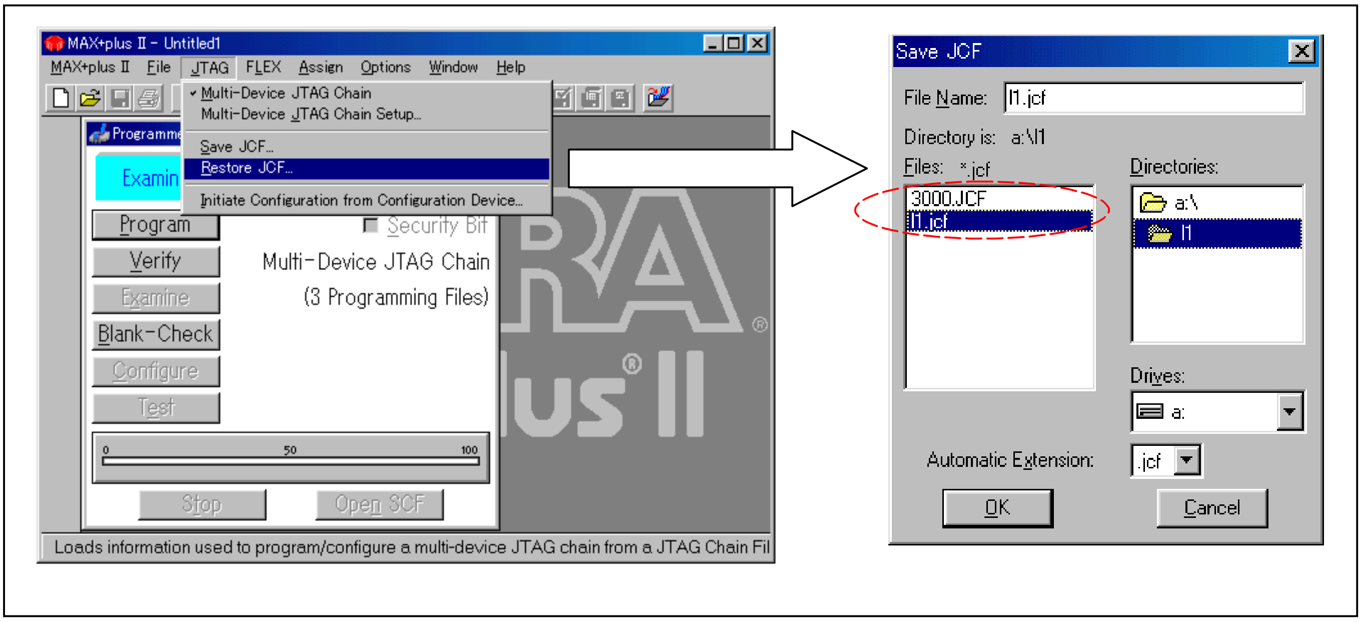
RS-232 Port: NONE

Baud Rate: 0

Parallel Port: LPT1: (0x

Figure 9-2B-3

7. On main window, select tab **“JTAG”**, and then select **“Restore JCF…”**
8. Select the floppy drive and then, select the **“jcf format file (.jcf) on dialog box of Restore JCF”** and then click **“OK”** button.


MAX+plus II - Untitled1
MAX+plus II
File
JTAG
FLEX
Assign
Options
Window
Help
✓ Multi-Device JTAG Chain
Multi-Device JTAG Chain Setup...
Save JCF...
Restore JCF...
Initiate Configuration from Configuration Device...
Programmer
Examin
Program
Verify
Examine
Blank-Check
Configure
Test
Security Bit
0
50
100
Stop
Open SCF
Save JCF
OK
Cancel

Multi-Device JTAG Chain (3 Programming Files)

Loads information used to program/configure a multi-device JTAG chain from a JTAG Chain Fil

File Name: l1.jcf

Directory is: a:\l1

Files: *.jcf

3000.JCF
l1.jcf

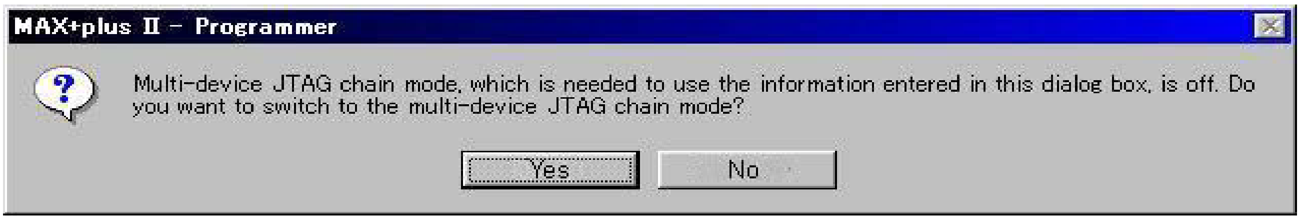
Directories:
a:\
l1

Drives: a:

Automatic Extension: .jcf

Figure 9-2B-4

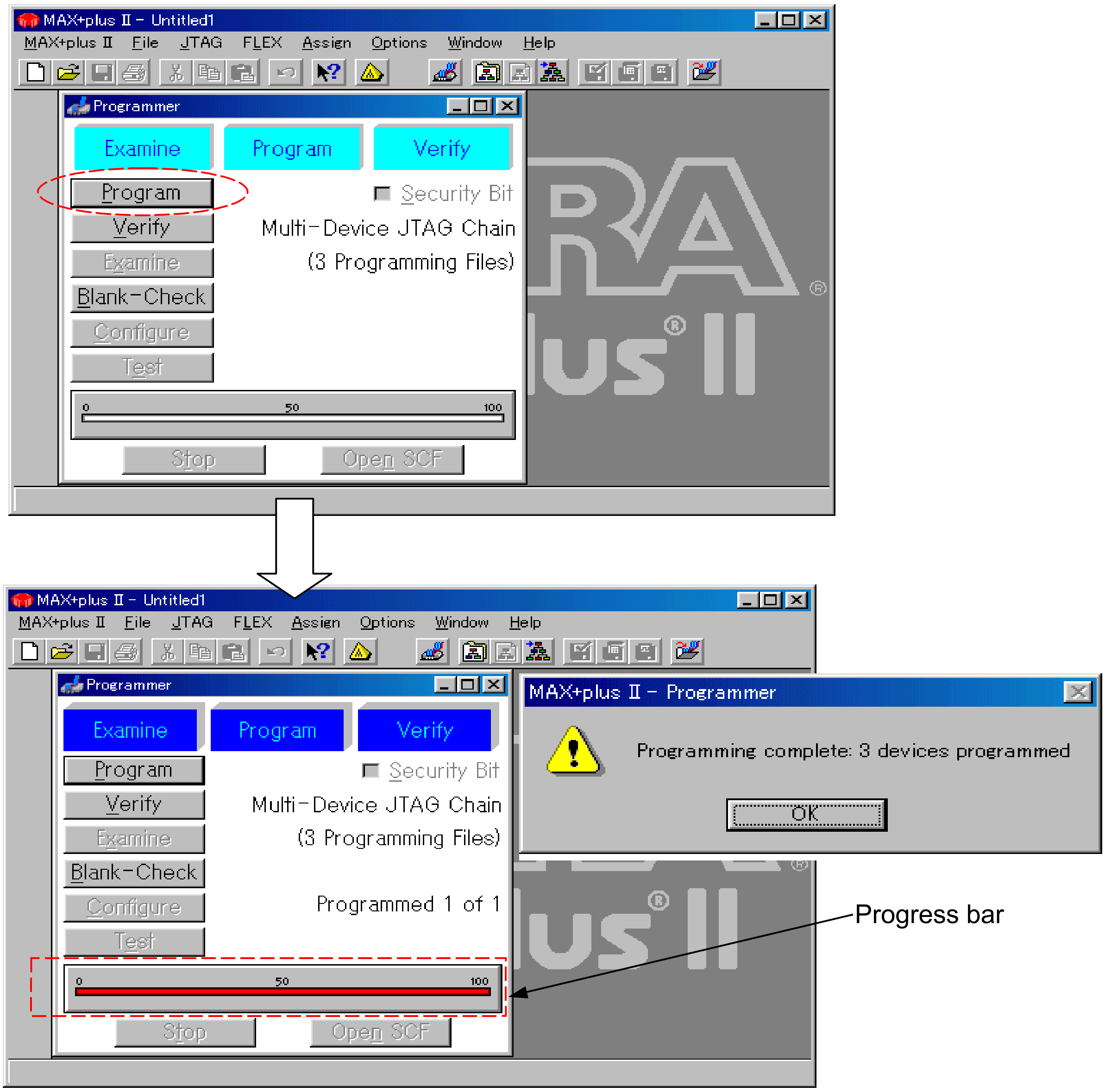
9. If the following message appeared, Click **“Yes”** button.


MAX+plus II – Programmer

Multi-device JTAG chain mode, which is needed to use the information entered in this dialog box, is off. Do you want to switch to the multi-device JTAG chain mode?

Figure 9-2B-5

10. Click the **“Program”** button on Programmer dialog.
11. When Progress Bar reaches at point of **100**, the message “Programming Complete” appears, then PLD version upgrade is completed. Click **“OK”** button on the **Programming complete** message Dialog.
12. Confirm that PLD version of VTR is updated.


MAX+plus II – Untitled1

Programmer

Multi-Device JTAG Chain

(3 Programming Files)

Programmed 1 of 1

MAX+plus II – Programmer

Programming complete: 3 devices programmed

MAX+plus II
File
JTAG
FLEX
Assign
Options
Window
Help
Examine
Program
Verify
Program
Verify
Examine
Blank-Check
Configure
Test
☐ Security Bit
0
50
100
Stop
Open SCF
OK
Progress bar

* MAX+PLUS are registered trademarks of Altera Corporation.

* Windows95 and Windows98 are registered trademarks of Microsoft Corporation.

Figure 9-2B-6

9-2-3. PLD Version Upgrade Method (LATTICE)

< REC_PB PLD IC>

A. Preparation

ITEM	REMARK
CPLD WRITER	VFK1590 VFK1590 VFK1590P3 (Not standard accessory of VFK1590)
D-sub 25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	LSC ispVM System Software : http://www.latticesemi.com/search/browse_type.cfm?catid=131&ty=65 and select **“ispVM System 13.2 for PC”** in programming software portion in order to download it.
File NAME	jcf File (Included in “VVVSI 4285B” file). (Copy all files of VVVSI 4285B which is included " .jct " file to floppy disk)
Personal Computer	WINDOWS 95® or 98®

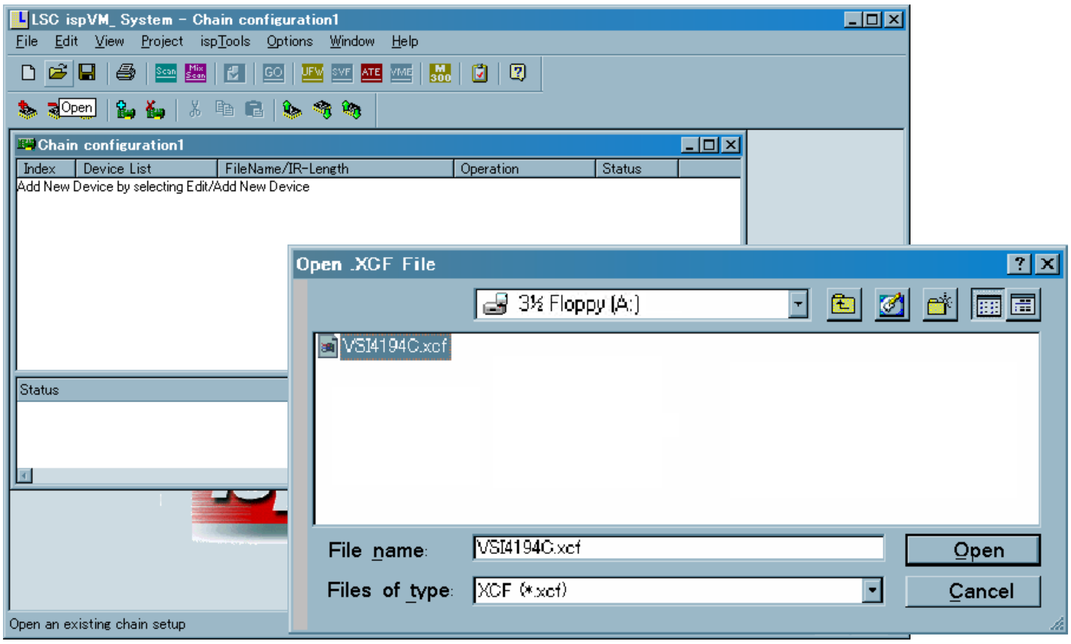
Table 9-2C-1

B. Connection

1. Connect the D-sub Cable between CN301 (for ALTERA) connector of the CPLD WRITER (VFK1590) and Personal Computer (Printer port) as shown table 9-2A-2.
2. Connect the CPLD WRITER Cable (VFK1590P3A) between the connector at the Board in the VTR as shown in table 9-2A-2 and 9-2A-4.
   <Note> VFK1590P3A is not standard accessory of VFK1590.
3. Turn on the VTR and Personal Computer (Windows mode).

C. Boot up the Ver. up Software and Ver. up Procedure

1. Select **“start button”** on the Windows Screen and then **“Program”,** and then boot up the **“LSCispVM System”** so that the following menu appears.
2. Insert floppy disk (which is includes all files of the program software VVVSI4285B as shown in table 9-2A-4) to floppy drive.
3. On main window, select tab **“File”** and then **”Open”** .
4. Open the program data file as shown table 9-2A-4.


LSC ispVM_ System - Chain configuration1
File
Edit
View
Project
ispTools
Options
Window
Help
Open
Chain configuration1
Index
Device List
FileName/IR-Length
Operation
Status
Status
Open .XCF File
3½ Floppy [A:]
VSI4194C.xcf
File name:
Files of type:
Open
Cancel

Add New Device by selecting Edit/Add New Device

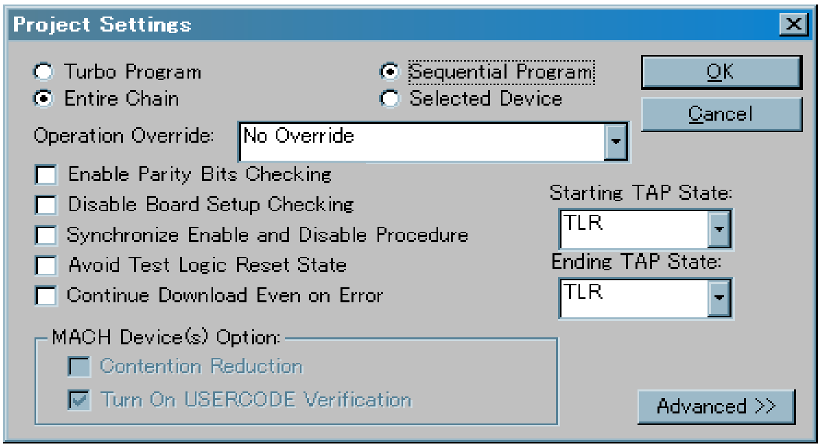
File name: VSI4194C.xcf

Files of type: XCF (*.xcf)

Open an existing chain setup

Figure 9-2C-2

5. On main windows, select **“Project”** and then **“Project Settings”** as shown in the figure below.
6. Make sure that the **“Sequential Program”** has been set at the first line. (Do not set “Turbo Program”.)


Project Settings
OK
Cancel
Advanced >>

○ Turbo Program
● Entire Chain
● Sequential Program
○ Selected Device

Operation Override: No Override

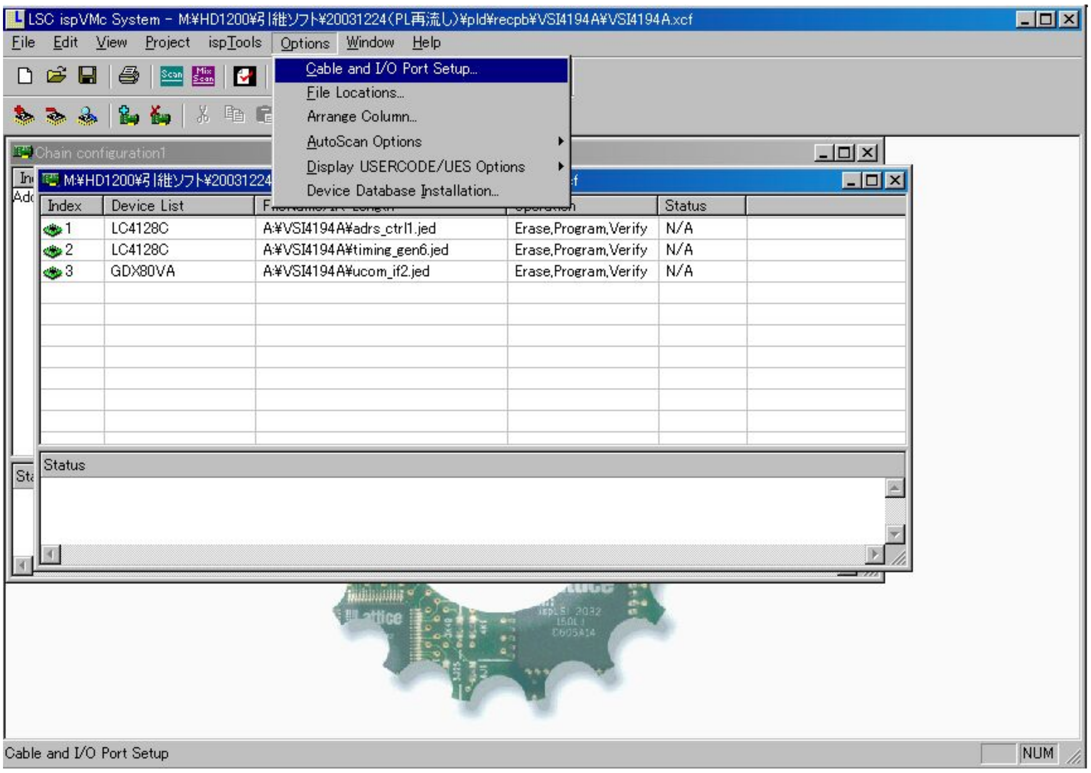
☐ Enable Parity Bits Checking
☐ Disable Board Setup Checking
☐ Synchronize Enable and Disable Procedure
☐ Avoid Test Logic Reset State
☐ Continue Download Even on Error

Starting TAP State: TLR
Ending TAP State: TLR

MACH Device(s) Option:
☐ Contention Reduction
☑ Turn On USERCODE Verification

Figure 9-2C-3

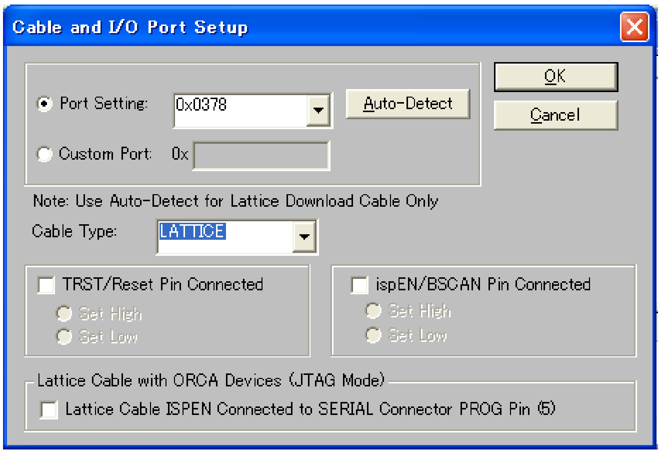
7. On main windows, select tab **“Options”**, and then select **“Cable and I/O Port Setup”**.


LSC ispVMc System - M:¥HD1200¥引継ソフト¥20031224(PL再流し)¥pld¥recpb¥VSI4194A¥VSI4194A.xcf
File
Edit
View
Project
ispTools
Options
Window
Help
Scan
Mix Scan
Cable and I/O Port Setup...
File Locations...
Arrange Column...
AutoScan Options
Display USERCODE/UES Options
Device Database Installation...
Chain configuration1
M:¥HD1200¥引継ソフト¥20031224
Status
Cable and I/O Port Setup
NUM

Index	Device List	F...	...	Status
1	LC4128C	A¥VSI4194A¥adrs_ctrl1.jed	Erase,Program,Verify	N/A
2	LC4128C	A¥VSI4194A¥timing_gen6.jed	Erase,Program,Verify	N/A
3	GDX80VA	A¥VSI4194A¥ucom_if2.jed	Erase,Program,Verify	N/A

Figure 9-2C-4

8. Make sure that the “Cable Type” is “LATTICE”, if it is not, set it as “LATTICE” and then “OK”.


Cable and I/O Port Setup
Auto-Detect
OK
Cancel

● Port Setting: 0x0378

○ Custom Port: 0x

Note: Use Auto-Detect for Lattice Download Cable Only

Cable Type: LATTICE

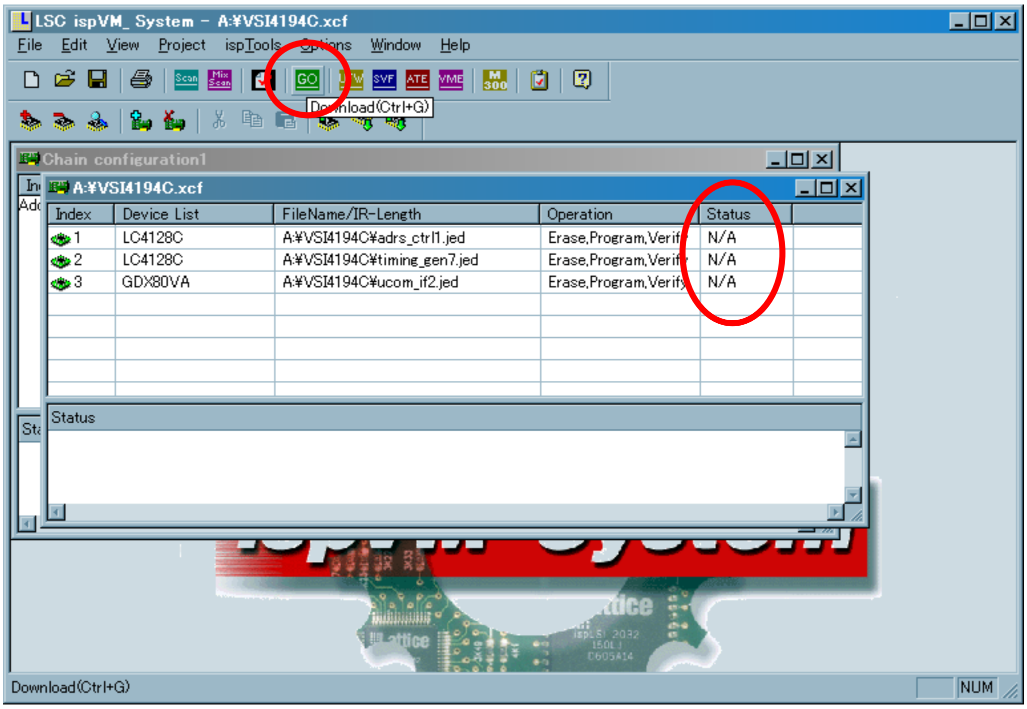
☐ TRST/Reset Pin Connected
○ Set High
○ Set Low

☐ ispEN/BSCAN Pin Connected
○ Set High
○ Set Low

Lattice Cable with ORCA Devices (JTAG Mode)
☐ Lattice Cable ISPEN Connected to SERIAL Connector PROG Pin (5)

Figure 9-2C-5

9. On main windows, click “GO” button as shown in the figure below and then the version upgrade will start.
10. After completion of version upgrade, all status columns show “PASS” as shown the figure below.


LSC ispVM_ System - A:¥VSI4194C.xcf
File Edit View Project ispTools Options Window Help
GO
Download(Ctrl+G)
Chain configuration1
A:¥VSI4194C.xcf
Status
Download(Ctrl+G)
NUM

Index	Device List	FileName/IR-Length	Operation	Status
1	LC4128C	A:¥VSI4194C¥adrs_ctrl1.jed	Erase,Program,Verif	N/A
2	LC4128C	A:¥VSI4194C¥timing_gen7.jed	Erase,Program,Verif	N/A
3	GDX80VA	A:¥VSI4194C¥ucom_if2.jed	Erase,Program,Verify	N/A

Figure 9-2C-6

9-2-4. PLD (FPGA) Version up Method (XILINX) [1]
<SERVO CPLD IC>

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	XILINX WebPACK ISE Programmer (iMPACT) Software Please download from the following URL http://www.xilinx.com/support/download.htm 1. Open this page and then select "WebPACK ISE". 2. Before downloading, registration is required to get ID and Password. 3. After registration, click "Download ISE WebPACK" button. 4. Select "CUSTOM" in "Typical Download Configurations" menu. 5. Check **"FPGA Prog."** in "Custom Design Configuration" page. 6. Click Download button. 7. Follow the instruction of next page.
Version Upgrade Data	cdf File (Included in VVVSI4289A file). (Copy all files of the VVVSI4289A which is included " *.cdf " file to floppy disk)
Personal Computer	WINDOWS 95® or 98®

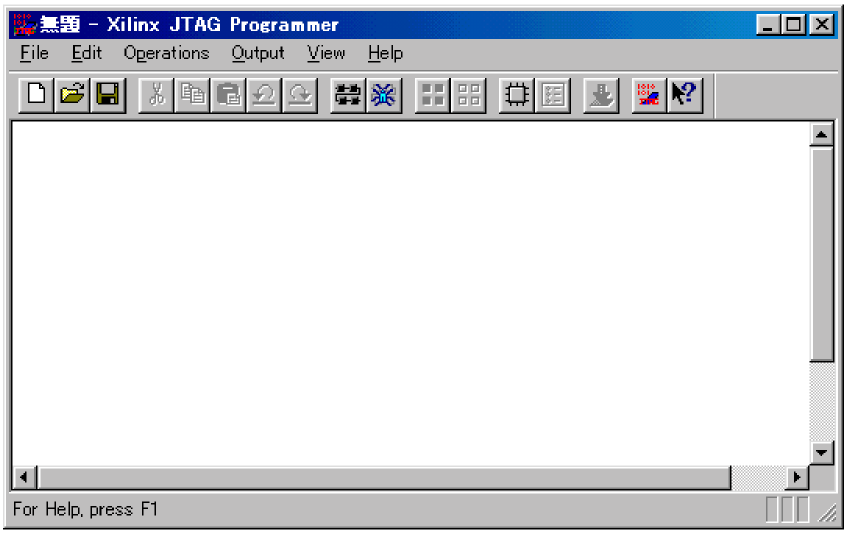
Table 9-2D-1

B. Connection and Preparation

1. Connect the D-sub Cable between CN401 (for XILINX) connector of the CPLD WRITER (VFK1590) and Personal Computer. (Refer to figure 9-2A-1 and table 9-2A-2)
2. Connect the CPLD WRITER Cable (VFK1590P4) between PLD version up connector on the relevant board and P401 connector of CPLD WRITER. (Refer to figure 9-2A-1 and tables 9-2A-2, 9-2A-4)
3. Turn on the VTR and Personal Computer (Windows mode).

C. Boot up the Ver. Up Software and Ver. up Procedure

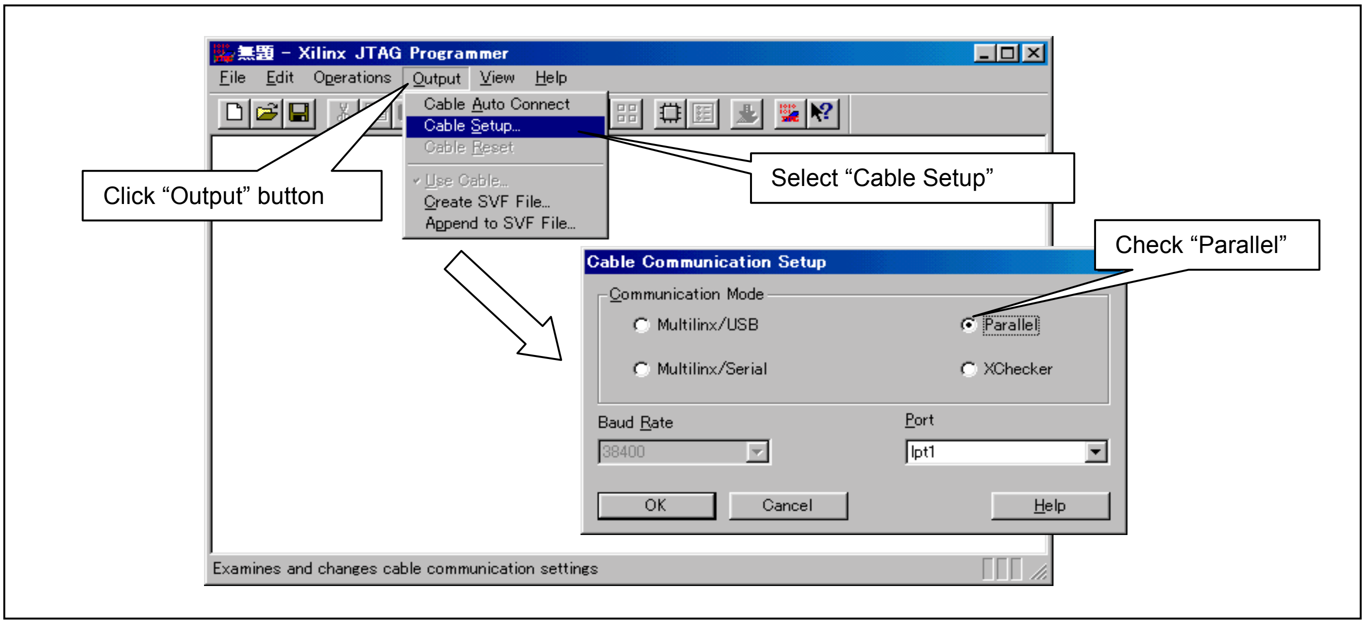
1. Select **"Start button"** on the Windows Screenand then **"Program"** and then boot up the **"Xilinx CPLD Webpack"** so that the menu appears as shown in figure 9-2D-2.



For Help, press F1

Figure 9-2D-2

2. On main window, select tab **"Output"** and then **"Cable Setup"** → **"Cable Communication Setup"** → **"Communication Mode"** → **"Communication Setup"** → **"Parallel"** as shown in figure 9-2D-3.



Click “Output” button

Select “Cable Setup”

Check “Parallel”

Cable Communication Setup

Communication Mode:
○ Multilinx/USB
● Parallel
○ Multilinx/Serial
○ XChecker

Baud Rate: 38400

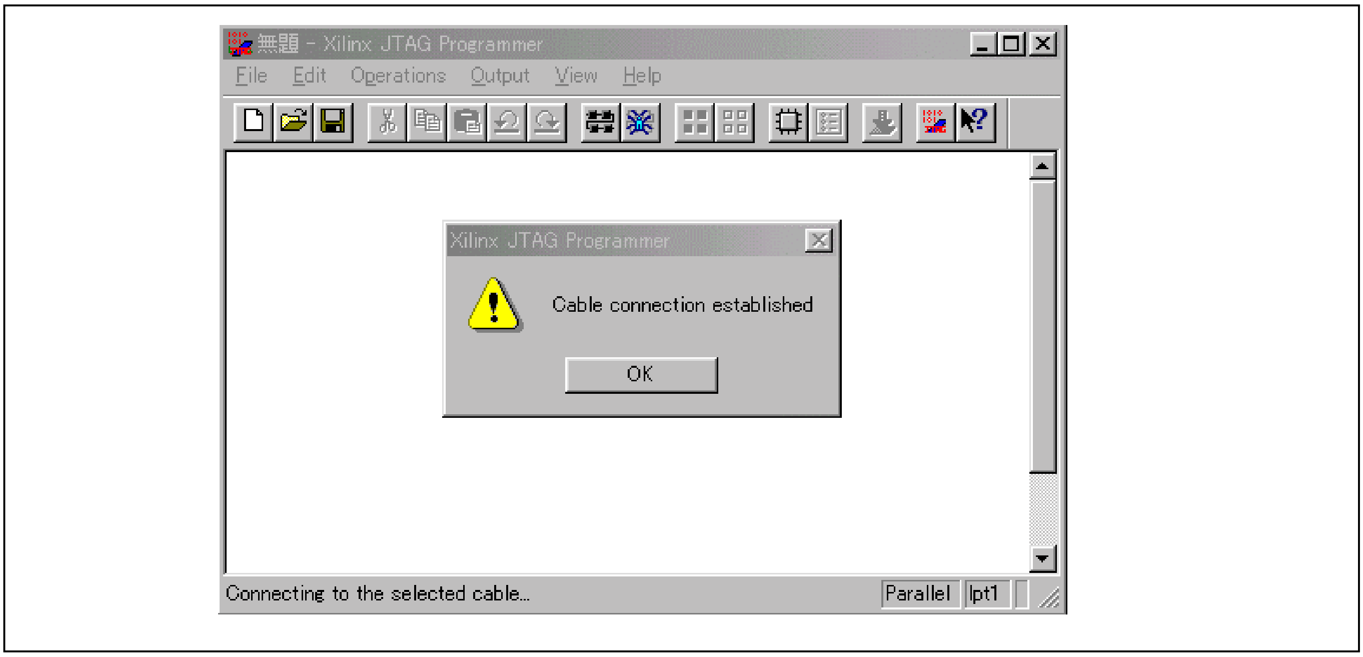
Port: lpt1

Examines and changes cable communication settings

無題 - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
Cable Auto Connect
Cable Setup...
Cable Reset
Use Cable...
Create SVF File...
Append to SVF File...
OK
Cancel
Help

Figure 9-2D-3

3. If the cable communication is correct, the message sa shown in fugure 9-2D-4 appears.



Xilinx JTAG Programmer

Cable connection established

Connecting to the selected cable...

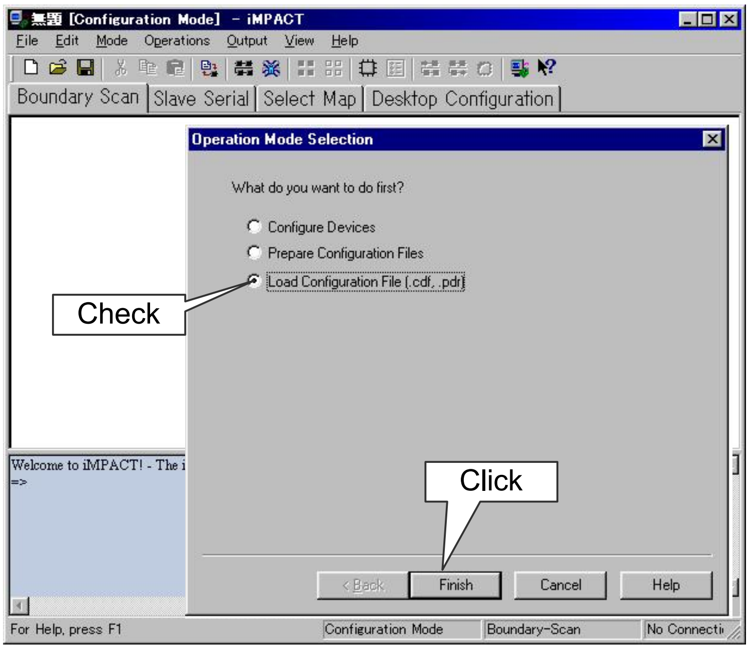
Parallel lpt1

無題 - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
OK

Figure 9-2D-4

4. Click **"OK"** button.

5. Insert floppy disk (which is includes all files of the VVVSI4289A) to floppy drive.
6. Install the WebPACK ISE program. “Xilinx Webpack” folder is created on windows.
7. Click the start button of windows and select "Program" and “Xilinx Webpack”.
8. Select the "Device Programer" and then following screen appears.
9. Check the "Load Configuration Files", and click "Finish" button.


無題 [Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
Operation Mode Selection
Check
Click
< Back
Finish
Cancel
Help
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

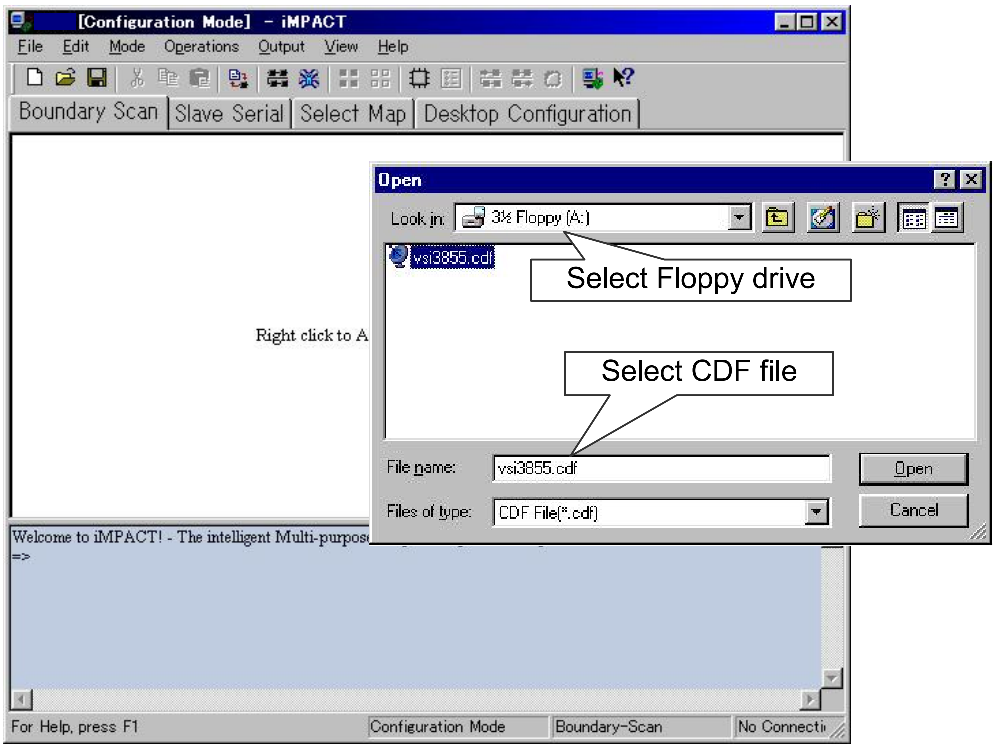
What do you want to do first?

○ Configure Devices
○ Prepare Configuration Files
● Load Configuration File (.cdf, .pdr)

Welcome to iMPACT! - The i
=>

Figure 9-2D-5

10. Select the floppy drive and then select the **“.cdf ”** file.
    (CDF is **C**hain **D**escription **F**ile, This file can write several CPLDs on the same board like a chain.)
11. Click the **“Open”** button.


[Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
Open
vsi3855.cdf
Select Floppy drive
Select CDF file
Right click to A
Open
Cancel
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

Look in: 3½ Floppy (A:)

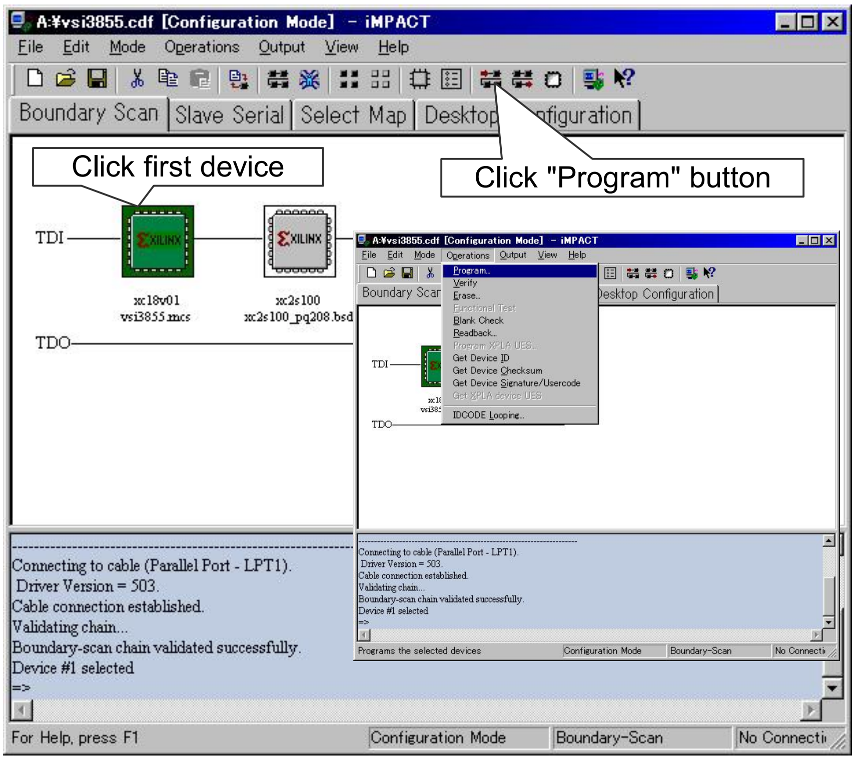
File name: vsi3855.cdf

Files of type: CDF File(*.cdf)

Welcome to iMPACT! - The intelligent Multi-purpos
=>

Figure 9-2D-6

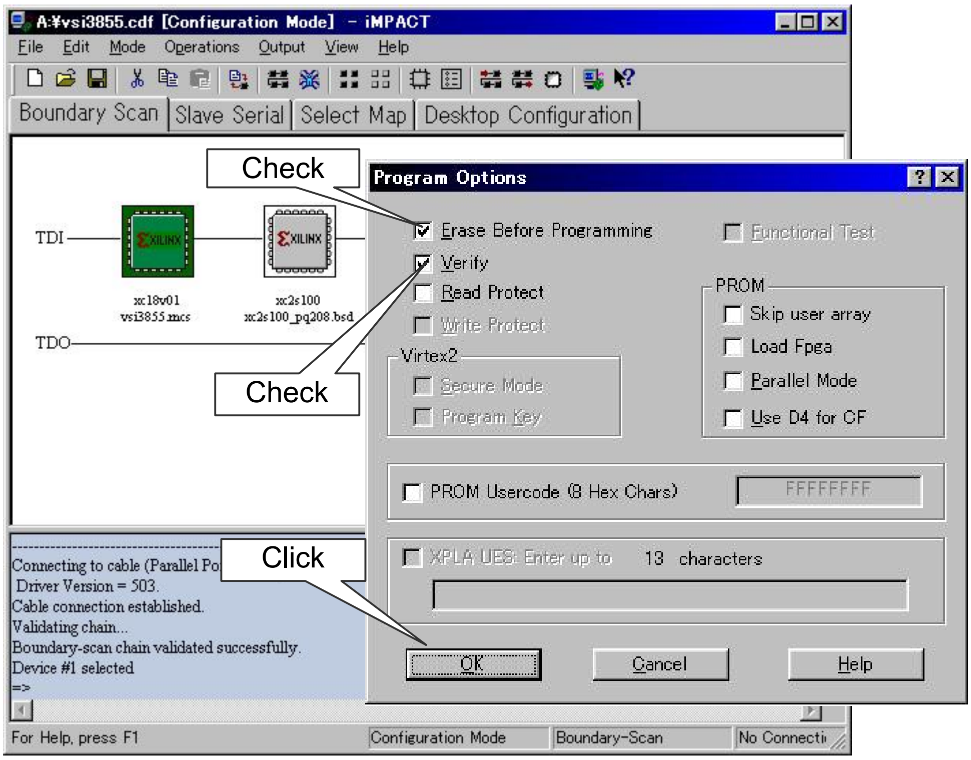
12. Click the first device (change the color to green) then click the **"program"** button to open the **"Program Options"** dialog box or select **"Operations"** in the menu then select **"Program"**.


A:¥vsi3855.cdf [Configuration Mode] – iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
Click first device
Click "Program" button
TDI
xc18v01
vsi3855.mcs
xc2s100
xc2s100_pq208.bsd
TDO
Program...
Verify
Erase...
Functional Test
Blank Check
Readback...
Program XPLA UES...
Get Device ID
Get Device Checksum
Get Device Signature/Usercode
Get XPLA device UES
IDCODE Looping...
Programs the selected devices
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

```
Connecting to cable (Parallel Port - LPT1).
 Driver Version = 503.
Cable connection established.
Validating chain...
Boundary-scan chain validated successfully.
Device #1 selected
=>
```

Figure 9-2D-7

13. Check the **"Erase Before Programming"** and **"Verify"** in the dialog box of Program Options.

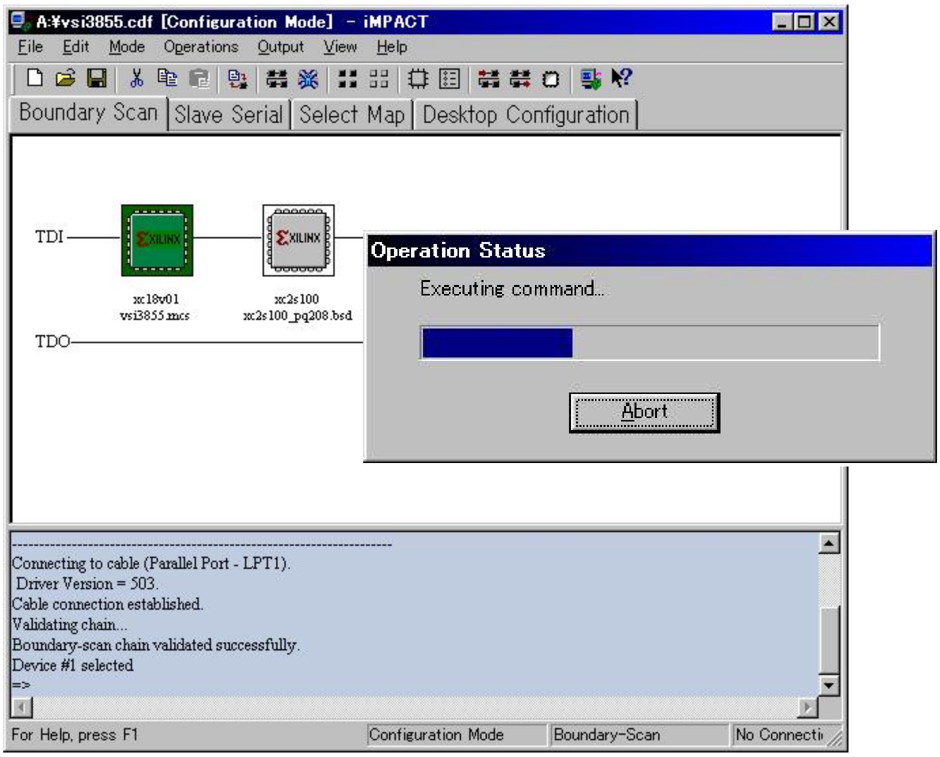

A:¥vsi3855.cdf [Configuration Mode] – iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
Check
Check
Click
TDI
xc18v01
vsi3855.mcs
xc2s100
xc2s100_pq208.bsd
TDO
Program Options
Virtex2
PROM
OK
Cancel
Help
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

☑ Erase Before Programming
☑ Verify
☐ Read Protect
☐ Write Protect
☐ Secure Mode
☐ Program Key
☐ Functional Test
☐ Skip user array
☐ Load Fpga
☐ Parallel Mode
☐ Use D4 for CF
☐ PROM Usercode (8 Hex Chars) FFFFFFFF
☐ XPLA UES: Enter up to 13 characters

```
Connecting to cable (Parallel Po
 Driver Version = 503.
Cable connection established.
Validating chain...
Boundary-scan chain validated successfully.
Device #1 selected
=>
```

Figure 9-2D-8

14. Then click **“OK”** button to start the programming and verifying.

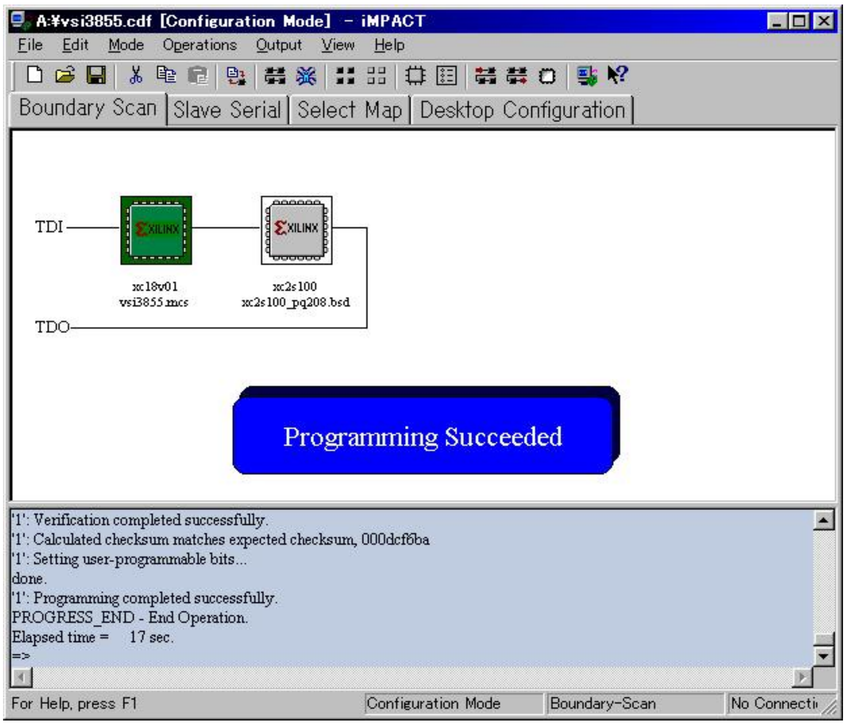

A:¥vsi3855.cdf [Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
TDI
TDO
xc18v01
vsi3855.mcs
xc2s100
xc2s100_pq208.bsd
Operation Status
Abort
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

Executing command...

```
-----------------------------------------------------------------------
Connecting to cable (Parallel Port - LPT1).
 Driver Version = 503.
Cable connection established.
Validating chain...
Boundary-scan chain validated successfully.
Device #1 selected
=>
```

Figure 9-2D-9

15. When the programming is completed. the dialog as shown in figure 9-2D-10 appears.
16. Confirm that PLD version of VTR is updated.


A:¥vsi3855.cdf [Configuration Mode] - iMPACT
File Edit Mode Operations Output View Help
Boundary Scan
Slave Serial
Select Map
Desktop Configuration
TDI
TDO
xc18v01
vsi3855.mcs
xc2s100
xc2s100_pq208.bsd
For Help, press F1
Configuration Mode
Boundary-Scan
No Connecti

Programming Succeeded

```
'1': Verification completed successfully.
'1': Calculated checksum matches expected checksum, 000dcf6ba
'1': Setting user-programmable bits...
done.
'1': Programming completed successfully.
PROGRESS_END - End Operation.
Elapsed time =     17 sec.
=>
```

Figure 9-2D-10

9-2-5. PLD (FPGA) Version up Method (XILINX) [2]
<1394 CPLD IC>

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	VFK1879 (xsvf file) Please download from our web site
Version Upgrade Data	(Copy all files of the VVVSI4288C which is included " *.cdf " file to floppy disk)
Personal Computer	WINDOWS 95® or 98®

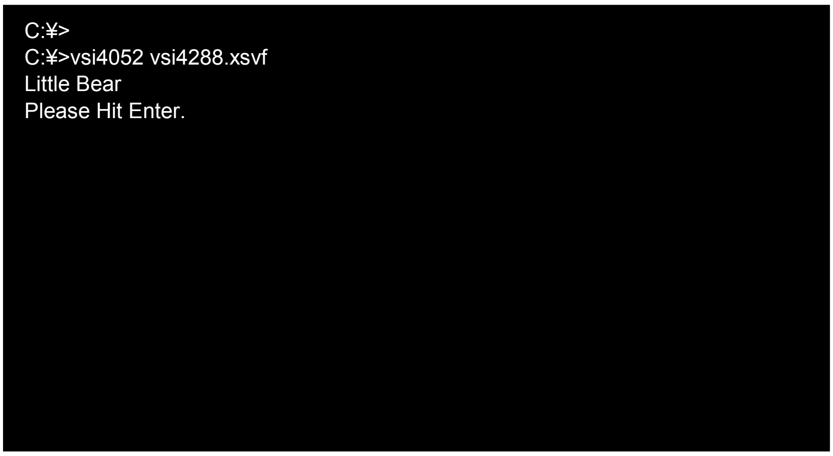
Table 9-2E-1

B. Connection and Preparation

1. Connect the D-sub Cable between CN401 (for XILINX) connector of the CPLD WRITER (VFK1590) and Personal Computer (Refer to figure 9-2A-1 and table 9-2A-2)
2. Connect the CPLD WRITER Cable (VFK1590P4) between PLD version up connector on the relevant board and P401 connector of CPLD WRITER. (Refer to figure 9-2A-1 and tables 9-2A-2, 9-2A-4)
3. Turn on the VTR and Personal Computer (Windows mode).

C. Boot up the Ver. Up Software and Ver. up Procedure

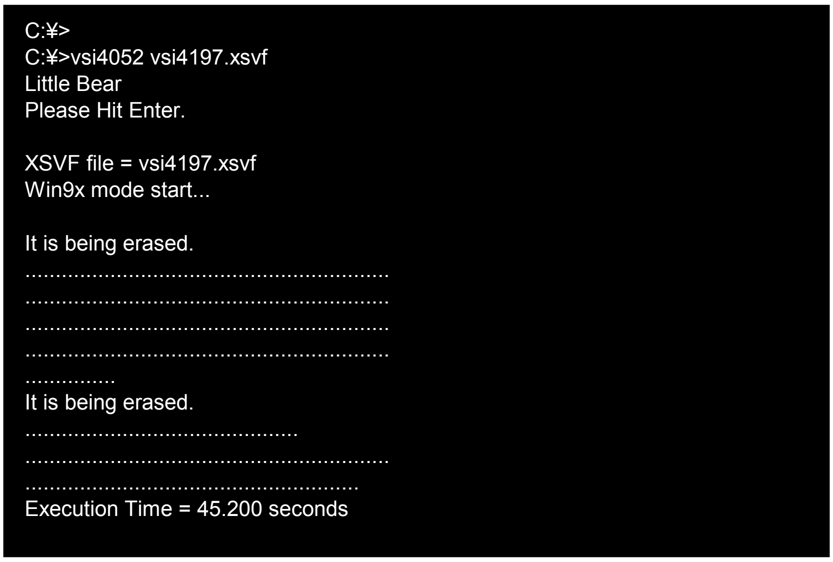
1. Insert floppy disk (which is includes all files of the VVVSI4288C) to floppy drive. (Refer to table 9-2A-4)
2. Install the version upgrade software (VFK1879) and open the DOS window as shown in figure 9-2E-2.
3. Press ther “ENTER” key, when the screen as shown in figure 9-2E-2 appears.
4. The programming takes about 3 seconds.



```
C:¥>
C:¥>vsi4052 vsi4288.xsvf
Little Bear
Please Hit Enter.
```

Figure 9-2E-2

5. When the programming is completed, the screen as shown in figre 9-2E-3 appears.



```
C:¥>
C:¥>vsi4052 vsi4197.xsvf
Little Bear
Please Hit Enter.

XSVF file = vsi4197.xsvf
Win9x mode start...

It is being erased.
..............................................................
..............................................................
..............................................................
..............................................................
...............
It is being erased.
..............................................
..............................................................
........................................................
Execution Time = 45.200 seconds
```

Figure 9-2E-3

6. Turn off and on the power of VTR in order to reboot the machine.
7. Confirm that the CPLD version of VTR is updated.
8. Turn off the VTR power and then CPLD writer tool and cables.

10. NODE UNIQUE ID (UID)

10-1. Confirmation of UID Number

IEEE1394 I/F Board (AJ-YAD120AG) has “Node Unique ID”. This UID number is displayed in the DIF STATUS MENU in the DIAG MENU

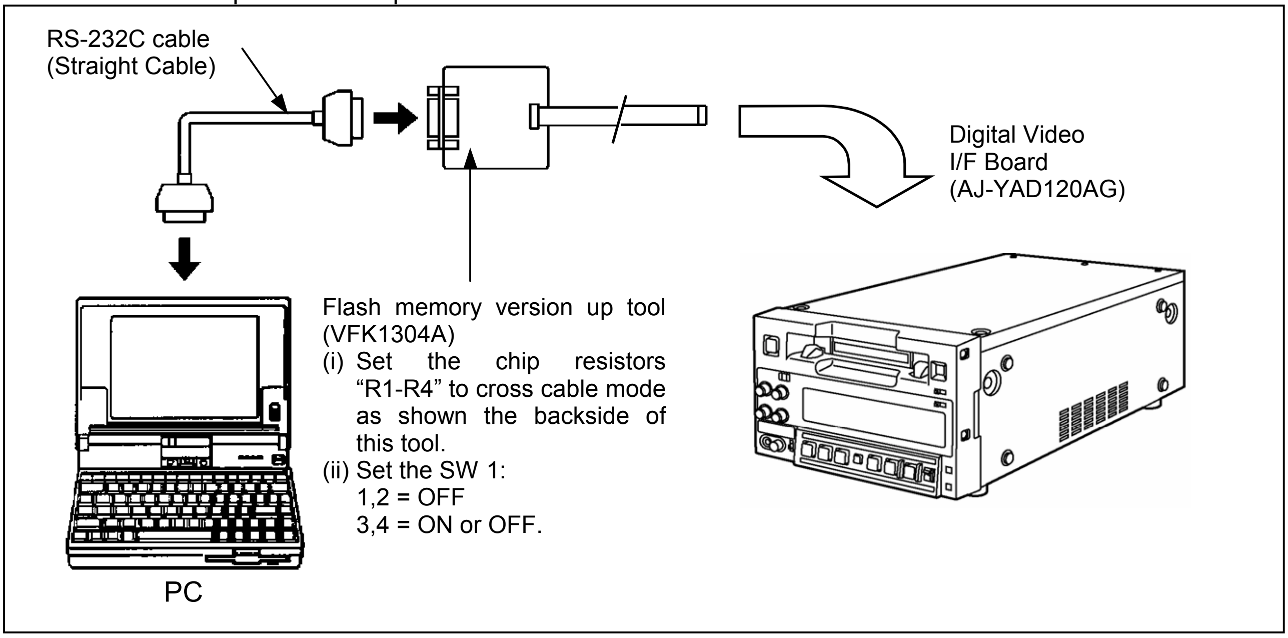
1. Connect a monitor TV to the Line Output of the VTR.
2. Open the “DIAG MENU”.
3. Press the “Search” button twice so that the **“DIF STATUS”** and **“UID Number”** are displayed on the monitor TV. (Refer to Paragraph 7, 7-1.)

10-2. Writing UID

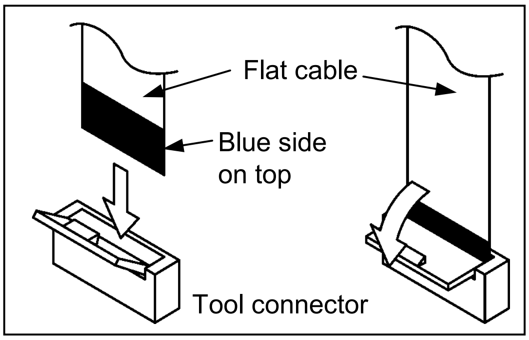
<Important Note>

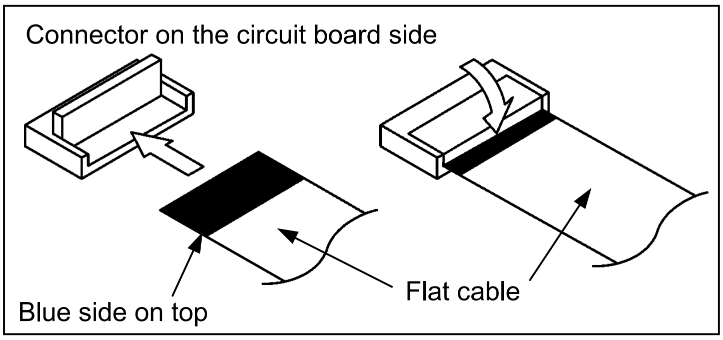
The UID number should not be changed from the original one.
If the original UID number is needed, contact Panasonic Service Engineering.

1. Connect the “Flash memory version up tool (VFK1304A)” between the connector (P2) on AJ-YAD120AG in the VTR and personal computer as shown below.


RS-232C cable
(Straight Cable)
Digital Video
I/F Board
(AJ-YAD120AG)
PC

Flash memory version up tool (VFK1304A)
(i) Set the chip resistors “R1-R4” to cross cable mode as shown the backside of this tool.
(ii) Set the SW 1:
1,2 = OFF
3,4 = ON or OFF.


Flat cable
Blue side
on top
Tool connector


Connector on the circuit board side
Blue side on top
Flat cable

2. Make sure that the direction of the flat cable connection (face side and reverse side of flate cable) to the tool (VFK1304A).
   Set the flat cable to the connector as shown in the figures below.

3. Set the VFK1304A in the “CROSS CABLE” mode as shown the backside of the tool but the actual connection cable should be straight cable.
4. Set the DIP switch SW3301-1 to ON, and SW3301-2, 3 and 4 are “OFF”.
5. Turn “ON” the personal computer power.

6. Start up the Hyper Terminal of Windows 95/98 on the personal computer.
   (Programs of Windows → Accessories → Hyper Terminal → Hypertrm.exe)
   Name the Hyper Terminal "1394", and select an icon.
   Select the connection method. (Connecting using: Direct to COM*)
   Perform settings of the Port. (Bits per second: 9600, Data bits: 8, Parity: None, Stop bits: 1, Flow control: None)
   File → Properties → Settings → ASCII Setup → put a mark on the "Append line feeds to incoming line ends" of ASCII Receiving.
7. Turn “ON” the VTR power.
8. The initial screen of Debug Monitor appears on the Hyper Terminal screen.

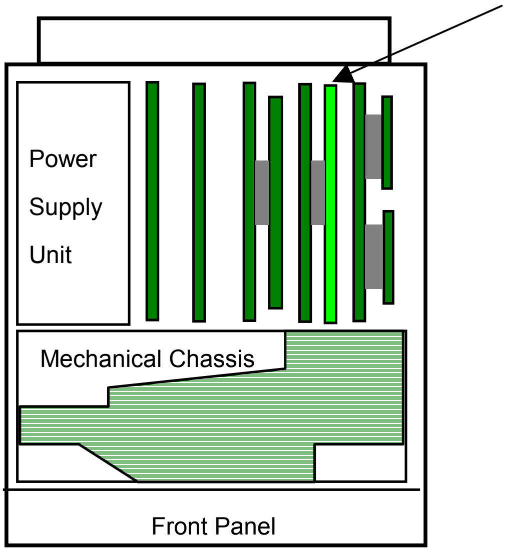
```
********************************************************************************
*                            -- Debug Monitor --                               *
*   Copyright(C) 1997-2003, Matsushita Electric Industrial Co., Ltd.   *
*                              All right reserved                              *
********************************************************************************
```

9. Press the Enter key, and confirm that "MON >>" appears.
10. Input the UID command "MON >>uid ********", which is the 8 digits of the second half of the UID. (The 8 digits of the first half are always 00804582.)
11. Confirm that "&OK" and "MON >>" appear.
12. Close the software "Hyper Terminal". Turn “OFF” the power of the VTR.
13. Set the DIP switch SW3301-1 to “OFF”

11. Service Menu

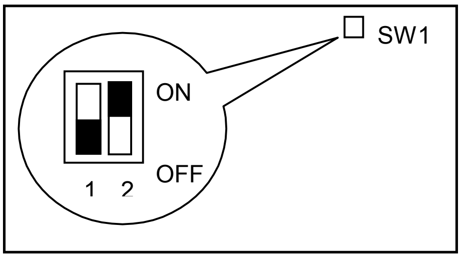
11-1. Service Menu Operation

1. Set the pin 2 of SW1 on the VOUT_SYS Board to the “ON” position.

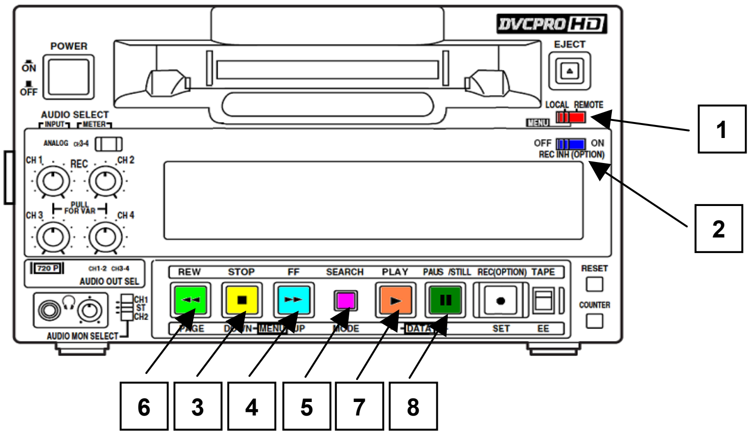

Power
Supply
Unit
Mechanical Chassis
Front Panel

(F4) VOUT/SYS Board

	Factory setting	Service Menu
SW1-1	OFF	---------
SW1-2	OFF	ON


SW1
ON
OFF
1
2

Component Side of VOUT_SYS Board (F4)


DVCPRO HD
POWER
ON
OFF
EJECT
LOCAL REMOTE
MENU
AUDIO SELECT
INPUT
METER
ANALOG
CH3-4
OFF
ON
REC INH (OPTION)
CH 1
REC
CH 2
PULL FOR VAR
CH 3
CH 4
720 P
CH1-2 CH3-4
AUDIO OUT SEL
CH1
ST
CH2
AUDIO MON SELECT
REW
STOP
FF
SEARCH
PLAY
PAUS /STILL
REC(OPTION)
TAPE
RESET
COUNTER
PAGE
DOWN
MENU
UP
MODE
DATA
SET
EE
1
2
6
3
4
5
7
8

2. Set the **“LOCAL/MENU/REMOTE” [1] switch on the Front Panel to the “MENU” position.**
3. Turn off the **“REC INHIBIT” [2]** on the Front Panel.
4. Select the item of the “MAIN MENU”.

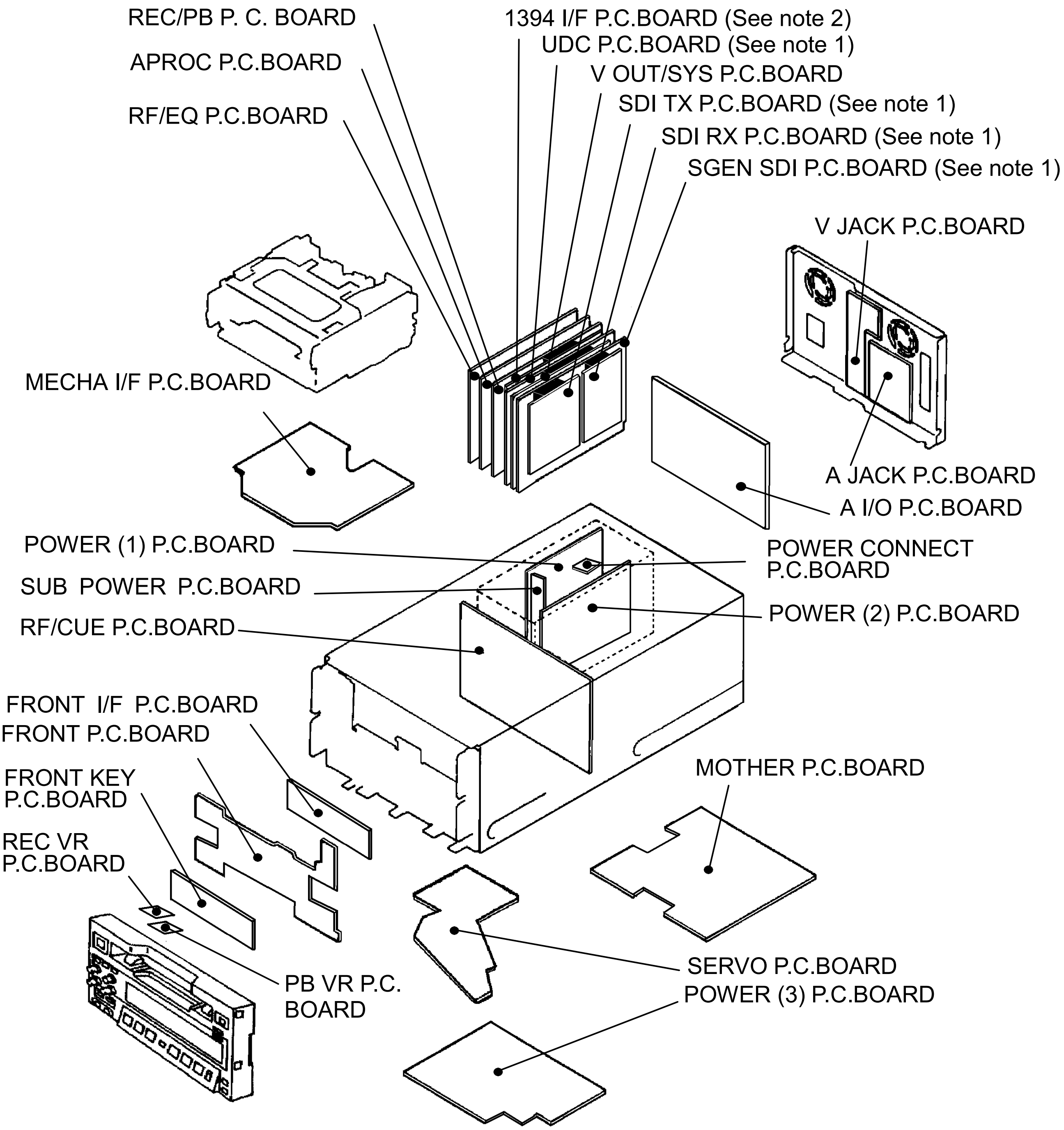
“DOWN” Button [3]:	Cursor (*) on the monitor moves to up direction.
“UP” Button [4]:	Cursor (*) on the monitor moves to down direction.
“MODE” Button [5]:	Menu changes to the direction of Main menu to sub menu.
“REC INHIBITS” Switch [2] ---- ON:	Menu operation becomes effective.
“REC INHIBITS” Switch [2] ---- OFF:	VTR operation becomes effective.

5. Select the item of the “SUB MENU”.

“DOWN” Button [3]:	Cursor (*) on the monitor moves to up direction.
“UP” Button [4]:	Cursor (*) on the monitor moves to down direction.
“PAGE” [6] + “MODE” [5] Buttons:	Menu changes to the direction of Main menu to sub menu.
“-“ Button [7]:	Data value is decreased.
“+” Button [8]:	Data value is increased.

6. Set the **“LOCAL/MENU/REMOTE” [1]**to the **“LOCAL”** or **“REMOTE”** position and then set the DIP switch **(SW1-2)** on the VOUT_SYS Board to the original position **(OFF).**

12. CIRCUIT BOARD LAYOUT


REC/PB P. C. BOARD
APROC P.C.BOARD
RF/EQ P.C.BOARD
1394 I/F P.C.BOARD (See note 2)
UDC P.C.BOARD (See note 1)
V OUT/SYS P.C.BOARD
SDI TX P.C.BOARD (See note 1)
SDI RX P.C.BOARD (See note 1)
SGEN SDI P.C.BOARD (See note 1)
V JACK P.C.BOARD
MECHA I/F P.C.BOARD
A JACK P.C.BOARD
A I/O P.C.BOARD
POWER (1) P.C.BOARD
SUB POWER P.C.BOARD
RF/CUE P.C.BOARD
POWER CONNECT P.C.BOARD
POWER (2) P.C.BOARD
FRONT I/F P.C.BOARD
FRONT P.C.BOARD
FRONT KEY P.C.BOARD
REC VR P.C.BOARD
MOTHER P.C.BOARD
SERVO P.C.BOARD
PB VR P.C. BOARD
POWER (3) P.C.BOARD

Note:

1. Optional accessory AJ-YA120AG (HD-SDI In/Out and SD-SDI Out Boards) consists of UDC P.C. Board, SGEN SDI / SDI TX / SDI RX P.C. Boards and BNC Connector Panel.
2. Optional accessory AJ-YAD120AG (Digital Video In/Out Board) consists of 1394 IF P.C. Board and Connector Panel.

13. Service Menu Setting

After replacing the “SYSIF Microcomputer with Flash ROM” (IC500) on the VOUT/SYS Board or VOUT/SYS Board it self, the following service menu setting should be performed.

Adjustment Item		Adjustment Value		* Shipping Suffix				Remark (Setup Menu)
No.	Supper Imposed Display	Range	After Initializing	:T (Japan)	:P (America)	E: (Europe)	:MC (China)	
F00 : VIDEO ADJUST								
F01	V SETUP	Off (0) On (1)	Off (0)	OFF (0)	ON (1)	OFF (0)	OFF (0)	ON: No.682 [VO SERUP(HD)], No.683 [VO SETUP(SD)] Selection OFF: Prohibition of the above operations
F03	ASPECT	ET V (0) CROP (1)	CROP (1)	CROP (1)	EIT V (0)	EIT V (0)	EIT V (0)	No.620 (DOWNCON MODE), No.621 (UPCON MODE) No.638 (IN U/C MODE) Expression of screen aspect is changed.
G00 : AUDIO ADJUST								
G01	REF LEVEL1	FS-20 (0) FS-18 (1) FS-12 (2)	FS-20 (0)	FS-20 (0)	FS-20 (0)	FS-18 (1)	FS-18 (1)	Audio reference level is selected.
G03	REF LV INT	0dB (0) 4dB (1)	4dB (1)	4dB (1)	0dB (0)	0dB (0)	4dB (1)	No.701-709 (Audio In/Out Levels) are selected.
G21	IN IMP IN	HIGH (0) 600 (1)	HIGH (0)	600 (1)	HIGH (0)	HIGH (0)	HIGH (0)	No.781 (IN IMP SELE) is selected.
G22	AUD OUT SEL	TYPE1 (0) TYPE2 (1)	TYPE (0)	TYPE 1 (0)	TYPE 1 (0)	TYPE 1 (0)	TYPE 1 (0)	TYPE1: No. 770 (MONITOR MIX) Selection TYPE2: Stereo Mode Only.
H00 : OTHER								
H03	FMT DISP	422 (0) 50M (1)	50M (1)	50M (1)	422 (0)	422 (0)	422 (0)	No. 023(FORMAT SEL) Expression of the above operation is changed.
H08	HD1200A	OFF (0) ON (1)	OFF (1)	AJ-HD1200 : OFF (0) AJ-HD1200A : ON (1)				ON : No. 894, No. 895 and No 896 are selected. OFF: Prohibition of the above Operations.
H21	UNDERCUT ADJ	00000 | 0020E | 00FFF	000 | 20E | FFF	Perform “2-1. Battery Voltage Detect Adj.” then the adjustment value is set.				
	INPUT VL		0.0V | 99.9V					

* The area name of each shipping suffix shows only representation area

SECTION 2

DISASSEMBLY PROCEDURES

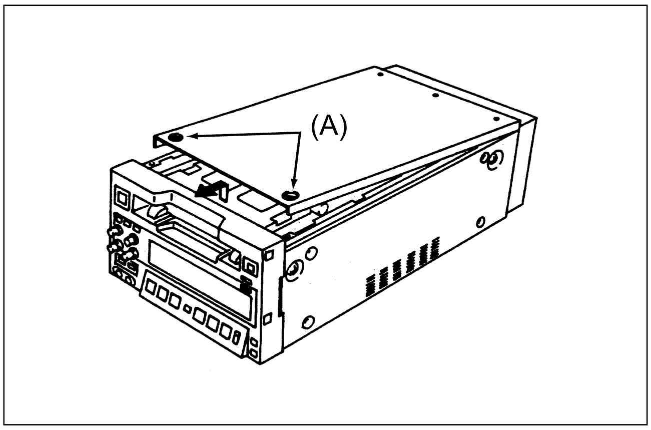
CONTENTS

Disassembly Procedures DIS-1
  - 1-1. Removal of Top Panel DIS-1
  - 1-2. Removal of Bottom Panel DIS-1
  - 1-3. Removal of Front Panel DIS-1
  - 1-4. Removal of Front-loading Unit DIS-1
  - 1-5. Removal of Rear Jack Panel DIS-2
  - 1-6. Removal of Power Supply Unit DIS-3
  - 1-7. Removal of Mechanism Unit DIS-3

Disassembly Procedures

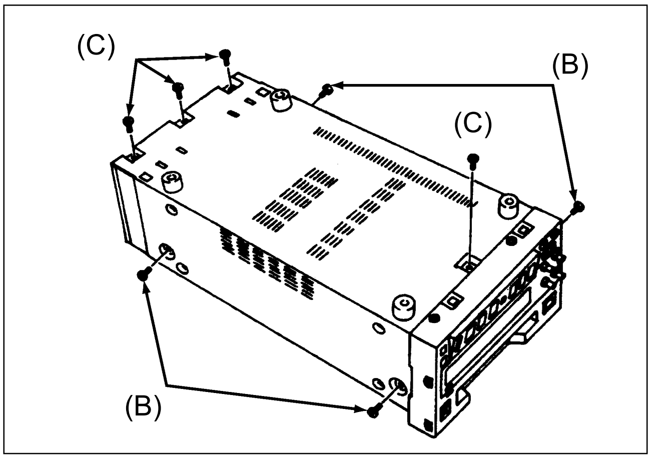
1-1. Removal of Top Panel

1. Unscrew the two screws (A).
2. Lift up the Top Plate slightly and remove it to the front.



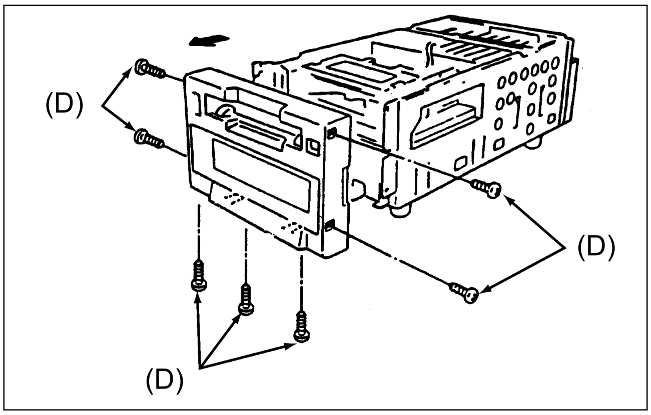
1-2. Removal of Bottom Panel

1. Unscrew the four screws (B).
2. Unscrew the four screws (C) and remove the Bottom Panel.

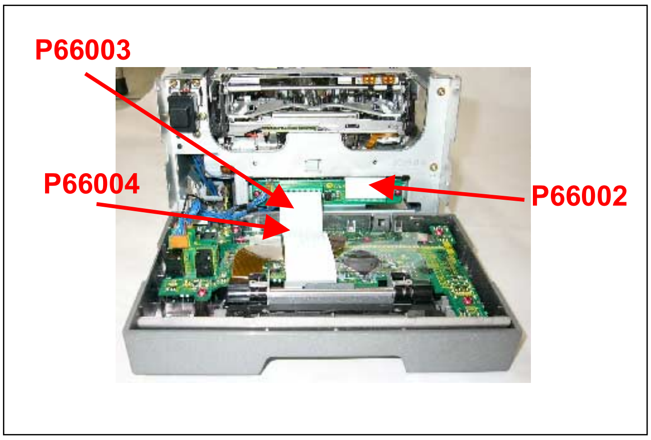


1-3. Removal of Front Panel

1. Unscrew the seven screws (D) and release the two lock claws.

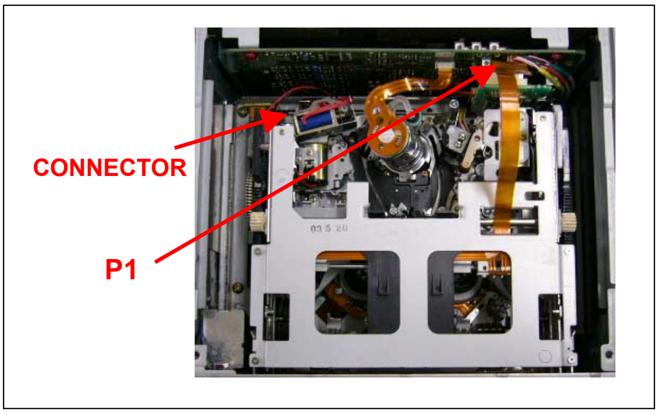


2. Open the Front Panel to the front.
3. Disconnect the three connectors (P66002, 66003, 66004) and remove the Front Panel.

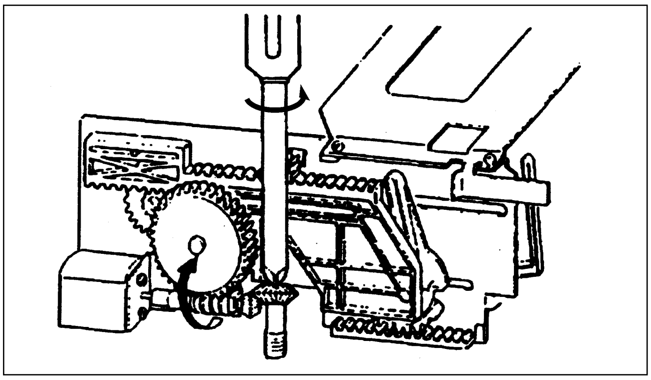


1-4. Removal of Front-loading Unit

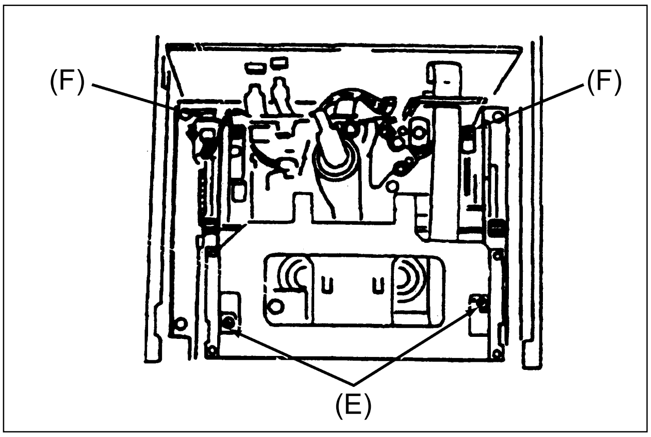
1. Disconnect the connector of the loading motor and the connector (P1).



2. Push the red plastic screw in front of the worm gear of the cassette-down motor with a screwdriver and turn it counterclockwise to move the cassette holder to the position where the two screws (E) can be seen as shown the next figure.

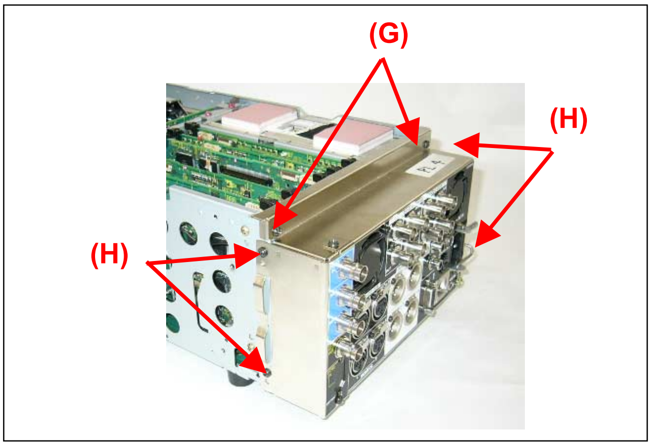


3. Unscrew the four screws (E) and (F), and then slowly lift up the Front Loading Unit.

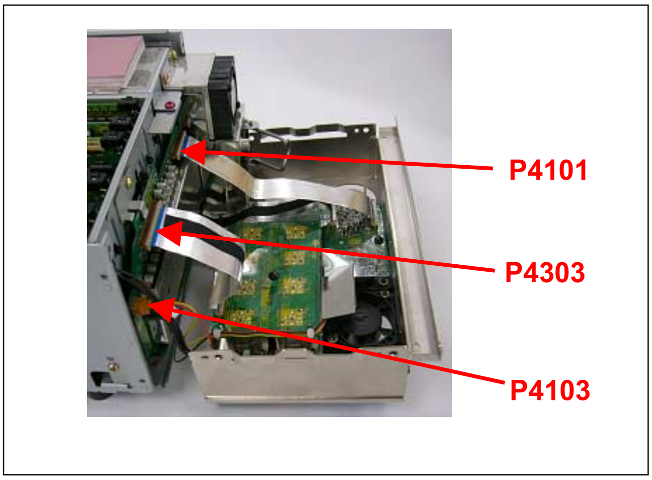


1-5. Removal of Rear Jack Panel

1. Unscrew the six screws (G) and (H).



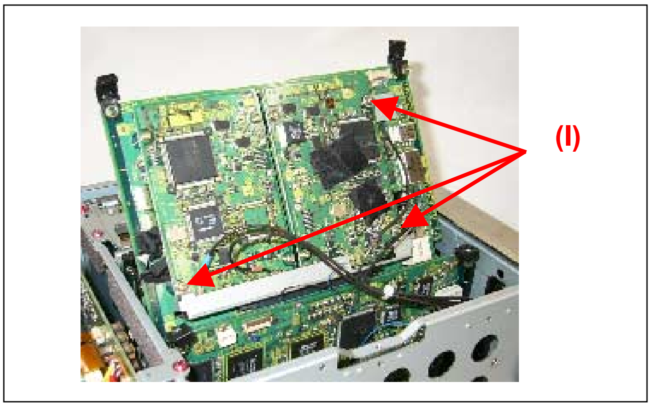
2. Disconnect the three connectors (P4101, 4130, 4303).


P4101
P4303
P4103

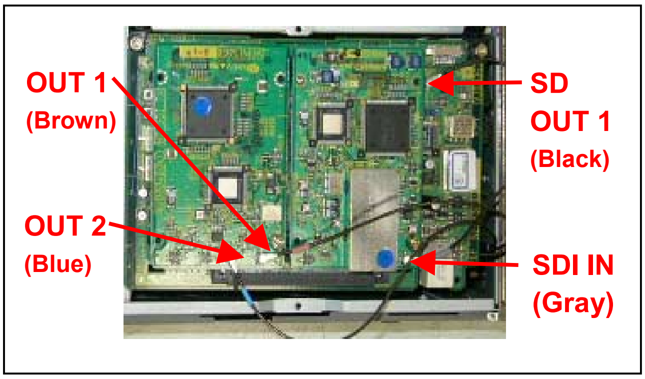
3. Remove the Rear Panel.

Note :
When the Optional Board AJ-YA120AG is installed, perform steps 4 to 5.

4. Temporally remove the SGEN_SDI Board and then unscrew the three screws (I), and remove the connector support angles.

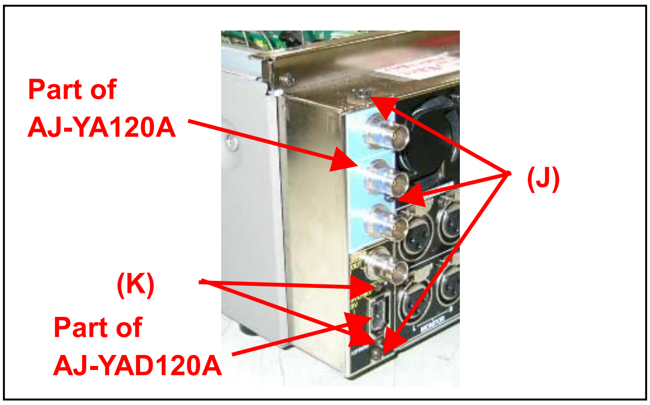


5. Disconnect the four connectors [SD OUT1 (Black), SDI IN (gray), OUT1 (Brown) and OUT2 (Blue)].


OUT 1
(Brown)
OUT 2
(Blue)
SD
OUT 1
(Black)
SDI IN
(Gray)

Note: When the Optional Board AJ-YA120AG or AJ-YAD120AG has been installed, perform step 6.

6. Unscrew the tree screws (J) and temporally remove the Connector Panel.

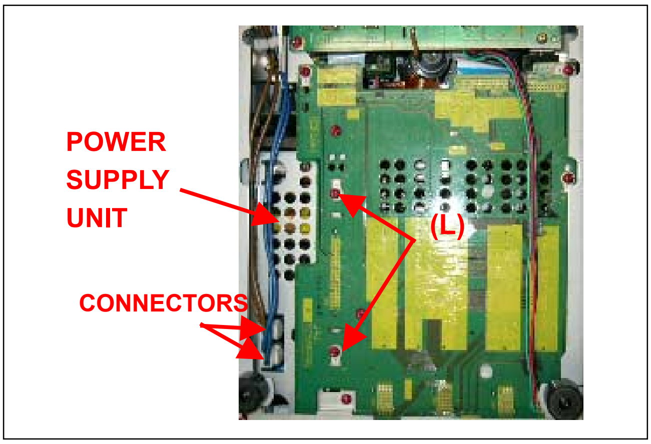

Part of
AJ-YA120A
(J)
(K)
Part of
AJ-YAD120A

7. Open the Rear Panel and remove the SDI cables, and Connector Panel of AJ-YA120AG.
8. Unscrew the two screws (K) and remove the IEEE1394 Connector Unit of AJ-YAD120AG from the Rear Panel.

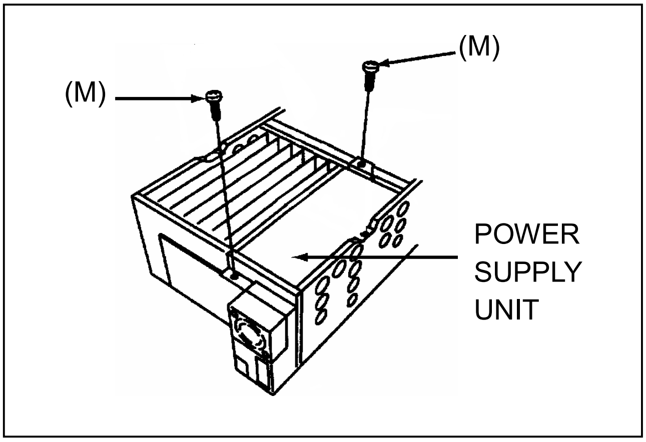
Note: 1. Pay attention not to damage the cable and wires.
2. Perform assembly by reversing the procedure.

1-6. Removal of Power Supply Unit

1. Disconnect the two connectors and unscrew the two screws (L).

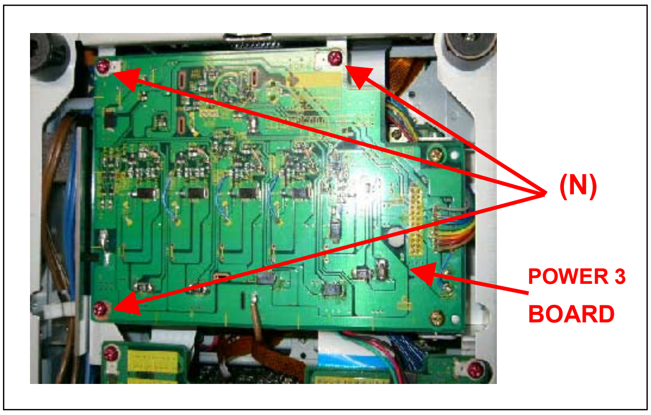

POWER SUPPLY UNIT
(L)
CONNECTORS

2. Unscrew the two screws (M) and lift up the Power Supply Unit to remove it.

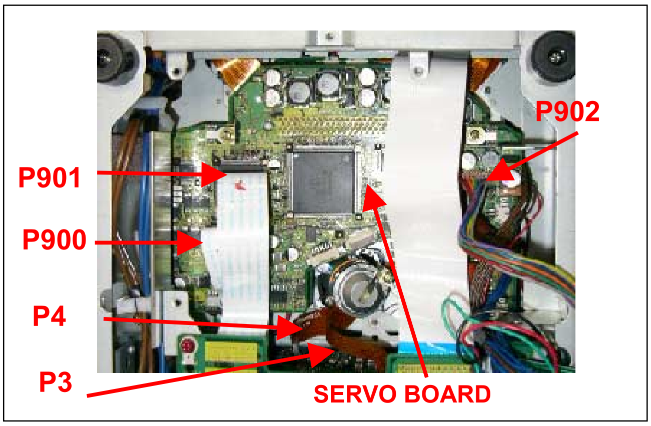

(M)
(M)
POWER SUPPLY UNIT

1-7. Removal of Mechanism Unit

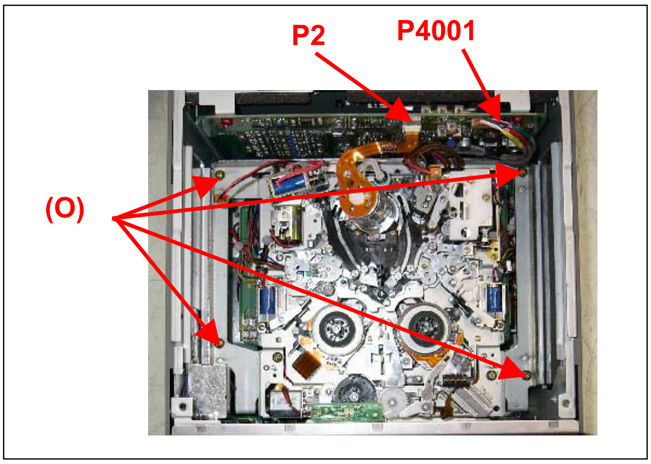
1. Unscrew the three screws (N) and open the Power 3 Circuit Board.


(N)
POWER 3 BOARD

2. Disconnect the five connectors (P901, P900, P902, P4 and P3) On the Servo Board.


P902
P901
P900
P4
P3
SERVO BOARD

3. Disconnect the two connectors (P2, and P4001), and remove the four screws (O).



4. Slowly lift up the Mechanical Chassis Unit.

Note: Perform assembly by reversing the procedure.

SECTION 3

MECHANICAL ADJUSTMENT

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    - 1-2. Post Height Pre-Adjustment MECH-2
    - 1-3. Photo Sensor Voltage Adj. MECH-2
    - 1-4. Tension Adj. Flow Chart MECH-2
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2-23. Distinction SW Unit Replacement..MECH-40
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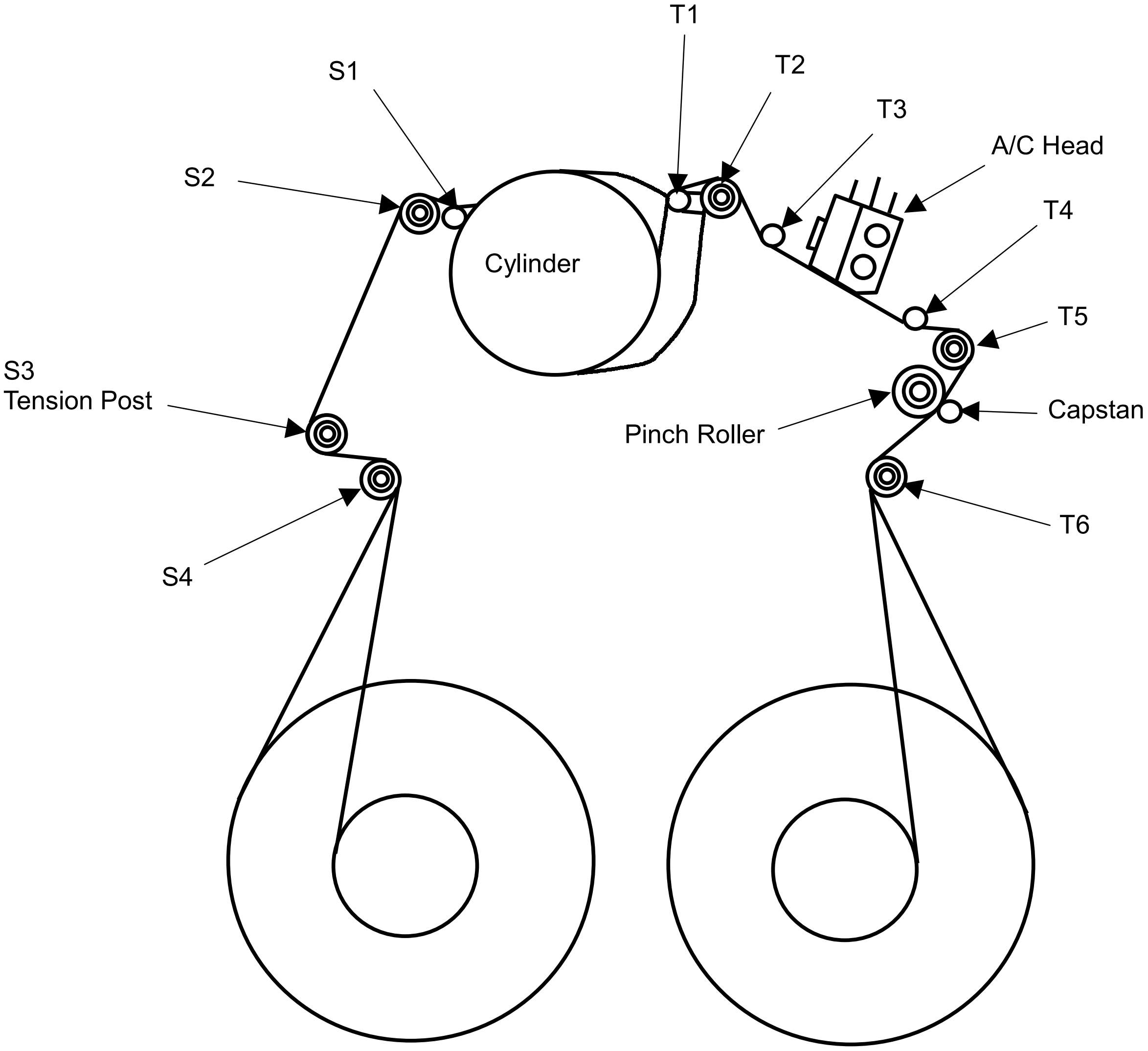
1. Mechanical Adjustment Procedures

Name of Components on Tape Transportation


T1
S1
T2
T3
A/C Head
S2
T4
Cylinder
T5
S3
Tension Post
Capstan
Pinch Roller
T6
S4

1-1. Post Driver Specification

The Post Driver (VFK1149) is not fitted with S2, S3, S4, T2, T5 and T6 posts. File the tip of Post Driver as shown in the figure, or obtain the new type of the Post Driver (VFK1149B).

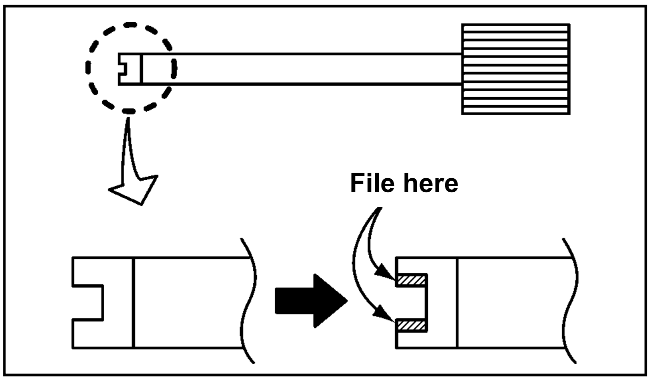


Figure 1-1-1

1-2. Post Height Pre-Adjustment

MODE	EJECT (POWER OFF)
TOOL	VFK1586 (Mech. Neutral Plate) VFK1154 (Post Height Fixture) VFK1149B (post Driver)

1. Confirm that the Reel Table is positioned for M-Cassette and turn the power OFF.
   Remove the Front Loading Unit and install the Mech. Neutral Plate (VFK1586).
   If the Reel Table position is not for M-Cassette, insert an M-Cassette and eject it so that the position is for M-Cassette.
2. Put the Post Height Fixture (VFK1154) on the Mech. Neutral Plate, and adjust the Upper Limit and Lower Limit as shown in figure 1-2-1.
3. Adjust the S3 and T5 Post Height to the lower limit under the loading condition.
4. Adjust the S4 and T6 Post Height to the lower limit, and turn them 1/4 rotation clockwise in order to realize 'Lower limit – 0.05mm'. (1 turn = 0.2mm)

Post Name	Limit
S3 Post	Lower Limit
S4 Post	Lower Limit - 0.05mm
T5 Post	Lower Limit
T6 Post	Lower Limit -0.05mm

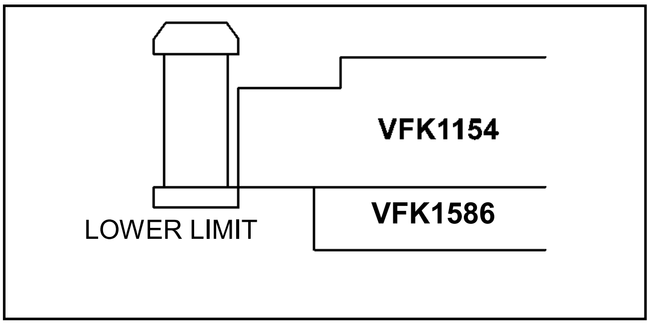

VFK1154
VFK1586
LOWER LIMIT

Figure 1-2-1

Note:
See page MECH-1 for post locations.

1-3. Photo Sensor Voltage Adj.

TP	T-side: TP2 (A_PROC Board: Slot 2) S-side: TP1 (A_PROC Board: Slot 2)
ADJ.	T- side: VR400 (Mech. I/F Board) S- side: VR401 (Mech. I/F Board)
MODE	STOP
TAPE	VFK1423 (Tape BEG./END Detect Adjustment Cassette)
SPEC.	2.2V ± 0.6V

1. Connect the oscilloscope to TP2 or TP1.on the A_PROC Board and then insert the VFK1423 (Tape Beg. /End Detect Adjustment Cassette).
2. Adjust VR400 on the Mech I/F Board so that the voltage at TP2 (T-side) is in the specification and VR401 on the Mech I/F Board so that the voltage is in the specification.

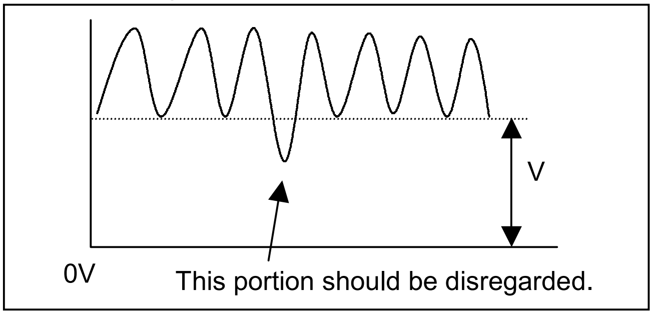

V
0V
This portion should be disregarded.

Figure 1-3-1

1-4. Tension Adj. Flow Chart

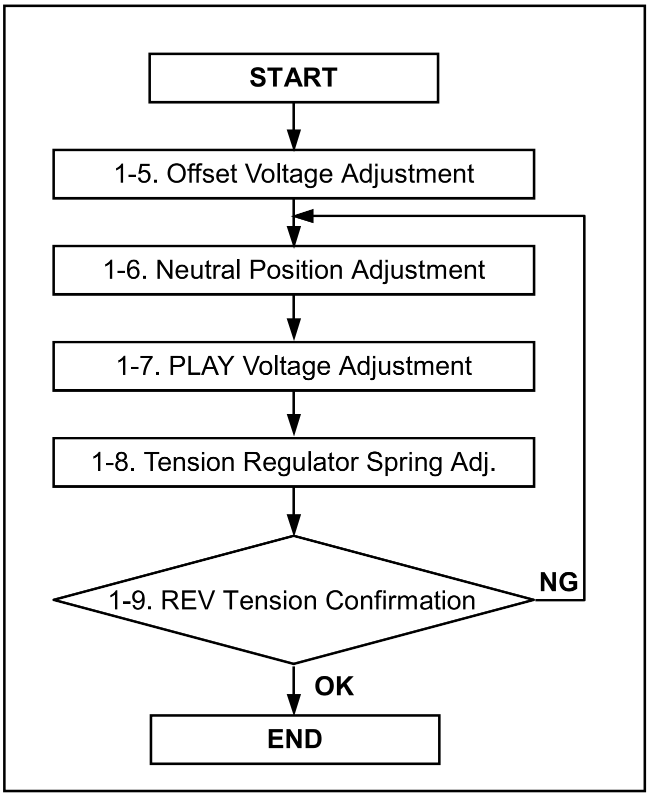

START
1-5. Offset Voltage Adjustment
1-6. Neutral Position Adjustment
1-7. PLAY Voltage Adjustment
1-8. Tension Regulator Spring Adj.
1-9. REV Tension Confirmation
NG
OK
END

Figure 1-4-1

1-5. Tension Arm Offset Voltage Adjustment

TP	TP3: A_PROC Board (Slot 2)
ADJ.	VR1: Mech. I/F Board
MODE	EJECT (POWER OFF)
M. EQ	Digital Volt Meter
SPEC.	2.5 V ± 0.05 V

1. Place the unit in the EJECT mode and measure the voltage at TP3.
2. If it is out of specification, adjust the VR1.

1-6. Tension Arm Neutral Position Adjustment

TP	TP3: A_PROC Board (Slot 2)
ADJ.	Tension Regulator Board Base position (Tab D)
MODE	STOP
TOOL	VFK1587 (NEUTRAL Position Fixture) Digital Volt Meter
SPEC.	2.5 V ± 0.1 V

1. Disconnect the flat cable between the Front Loading unit and P3 connector in figure 1-6-1.
2. Unscrew the 6 screws and remove the Top Plate.
3. Set the VFK1587 (NEUTRAL Position Fixture) as shown in figure 1-6-2.
4. Open the “SERVO ADJUST” menu in the Service Menu and select the item “A07: TENSION”.
   Place the unit in the loading completion mode without cassette tape. (Refer the following note 1)
5. Adjust the base position of Tension Regulator Board so that the voltage at TP3 is within the specification.
   To adjust the base position of Tension Regulator Board, loosen the screw (A) and move the lever (D) by using a non-magnetic screwdriver. To fix the base, tighten the screw (A).

Note:

Loading Operation without Cassette Tape

1) Turn on the Dip Switch (SW1, pin 2) on the VOUT/SYS Board.
2) Set the LOCAL/MENU/REMOTE switch on the Front Panel to the MENU position so that the VTR is Service Menu Mode.
3) Turn off the REC INHIBIT switch on the front panel.
4) Select 00: SERVO ADJUST by using “+” or “-“ button and then press the MODE button...
5) Select A07: TENSION by using “+” or “-“button and then press the MODE button so that the VTR becomes the loading completion mode without cassette tape.

Change to Normal Operation

1) Press the MODE switch while pressing the PAGE button so that the SERVICE MENU changes to the TOP MENU.
2) Set the LOCAL/MENU/REMOTE to LOCAL or REMOTE position so that the VTR is placed in the normal mode.
3) Turn the DIP switch (SW1, pin 2) off.

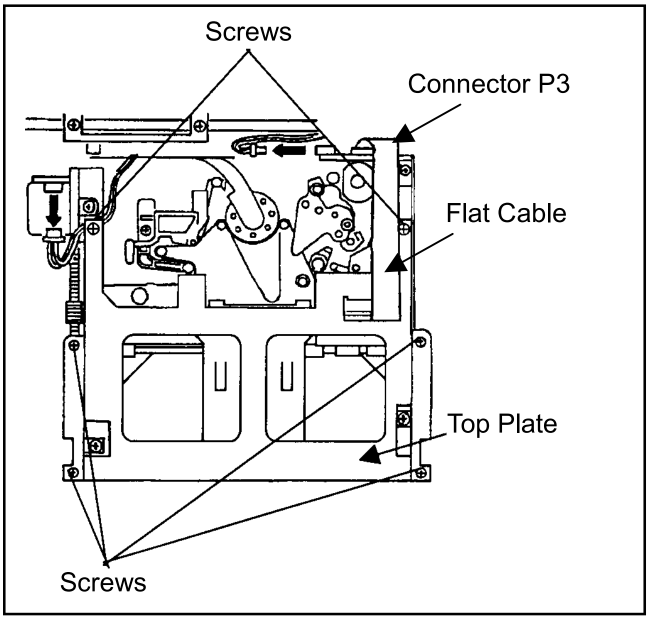


Figure 1-6-1

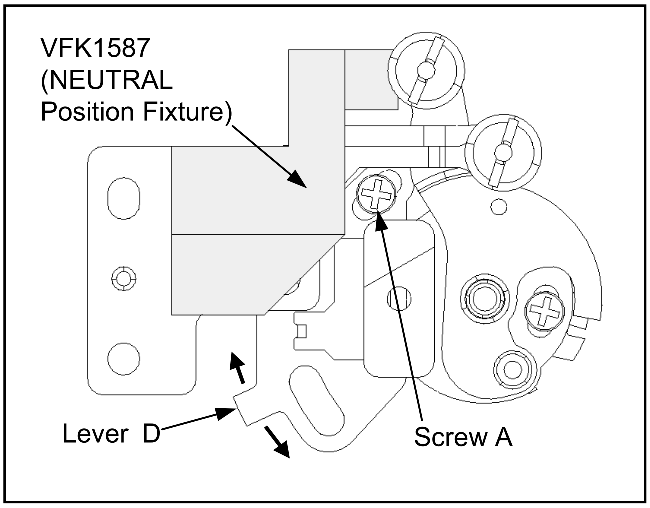


Figure 1-6-2

1-7. PLAY Voltage Adjustment

TP	TP3: A_PROC Board (Slot 2)
ADJ.	VR2: Mech. I/F Board
MODE	STOP
TOOL	VFK1588 (PLAY Position Fixture) Digital Volt Meter
SPEC.	3.8 V ± 0.05 V

1. Set the VFK1588 (PLAY Position Fixture) as shown in the figure 1-7-1.
2. Open the “SERVO ADJUST” menu in the Service Menu and select the item “A07: TENSION”.
Place the unit in the loading completion mode without cassette tape. (Refer the note in Paragraph 1-6.)
3. Adjust VR2 so that the voltage at TP3 is in the specification.

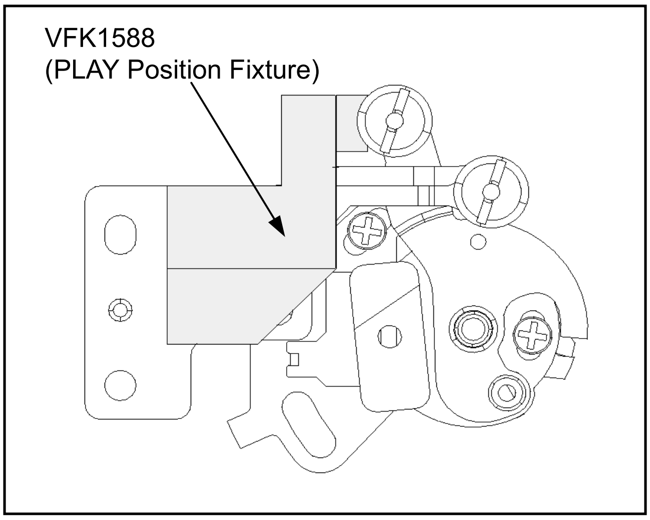


Figure 1-7-1

1-8. Tension Regulator Spring Adjustment

TP	TP3: A_PROC Board (Slot 2)
ADJ.	Tension Spring Adjust Screw
MODE	STOP
TOOL	VFK1188A (Dial Tension Gauge) Digital Volt Meter
SPEC.	100mN ± 10mN (1gf ± 1gf)

1. Open the “SERVO ADJUST” menu in the Service Menu and select the item “A07: TENSION”.
Place the unit in the loading completion mode without cassette tape. (Refer the note in Paragraph 1-6.)
2. Push the tension post in the direction R by the tension gauge under the loading condition until the output voltage reaches 3.8V (Play position).
3. Adjust the Tension Regulator Spring Adjust Screw while keeping the voltage 3.8V so that the measured value by the Torque gauge is within the specification. (Refer to the figure below.)

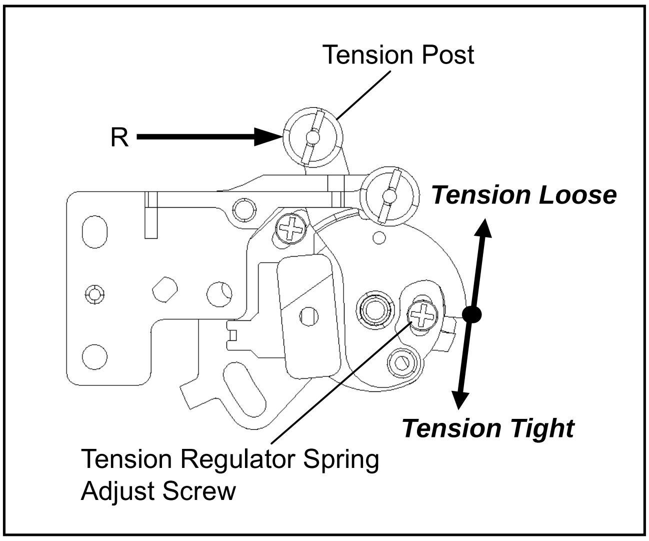


Figure 1-8-1

1-9. REV Tension Confirmation

TP	TP3: A_PROC Board (Slot 2)
MODE	STOP
TOOL	VFK1188A (Dial Tension Gauge) Digital Volt Meter
SPEC.	180mN ± 20mN (18gf ± 1gf)

1. Open the "SERVO ADJUST" menu in the Service Menu and select the item "A07: TENSION".
   Place the unit in the loading completion mode without cassette tape. (Refer the note in Paragraph 1-6.)
2. Push the tension post to the direction R by the tension gauge under the loading condition until the output voltage reaches 1.1V (REV position).
3. Confirm that the measured value by the Torque gauge is within the specification while keeping the voltage 1.1V.
4. If it is out of specification, readjust the "1-8. Tension Regulator Spring Adjustment".
5. After finishing the A/C Head adjustment, one drop of screw lock tight glue should be applied to the portions (A) and (B) as shown in figure 1-9-1.

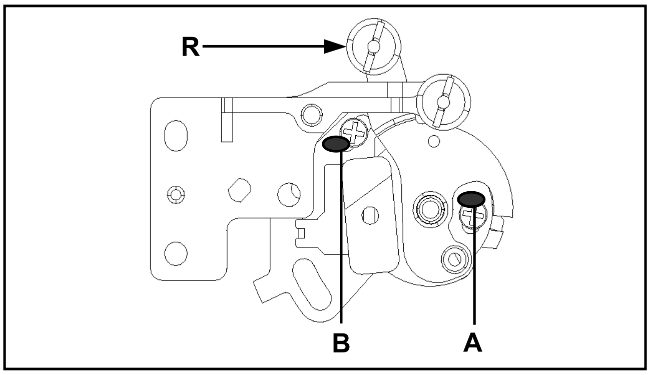


Figure 1-9-1

1-10. Tension Confirmation

MODE	PLAY, REV x-1
TAPE	66min. M-Cassette (Beginning)
TOOL	VFK1145A (Tension Meter)
SPEC.	PLAY: 59mN ± 10mN (6gf ± 1gf)

* Please calibrate Tension Meter before tension measurement by the following procedure.

<Calibration of the Tension Meter>

1. Attach the 7 grams calibration weight to DVCPRO tape. (The plumb is included in VFK1145.)
2. Set the above tape to the Tension Meter as shown in figure 1-10-1.
3. Pull up the tape at 33mm/sec speed to the direction of tape running, and calibrate the Meter so that the meter shows 68.6cN (7g).

* To calibrate Tension Meter the tape must be pulled up in the direction of tape path of VTR as shown in figure 1-10-1.

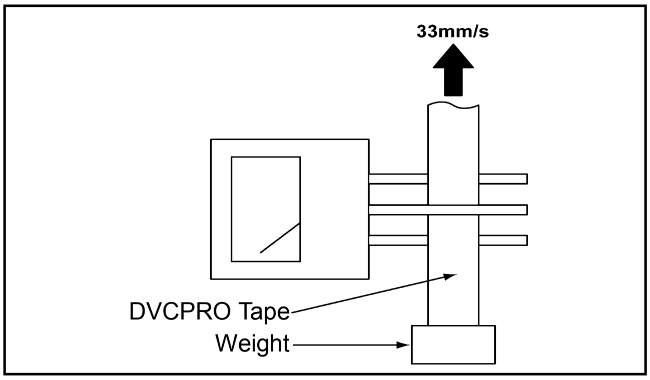


Figure 1-10-1

<Confirmation>

1. Play back the beginning of tape.
2. Insert the tension meter between S2 post and S3 post as shown in figure 1-10-2.
3. Confirm that the tension is within the specification.
4. If it is out of specification, follow the flowchart of the Tension Arm Adjustment.

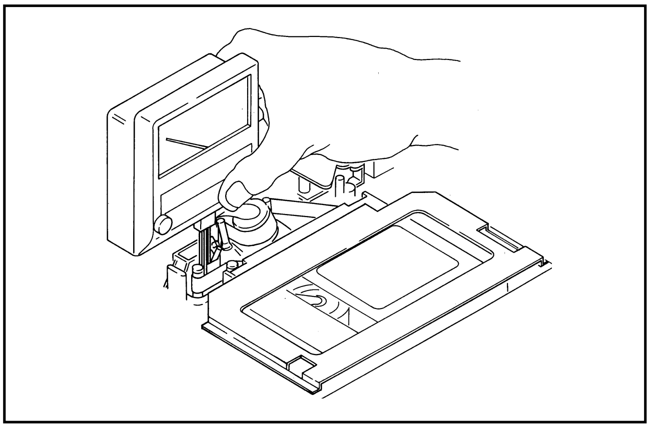
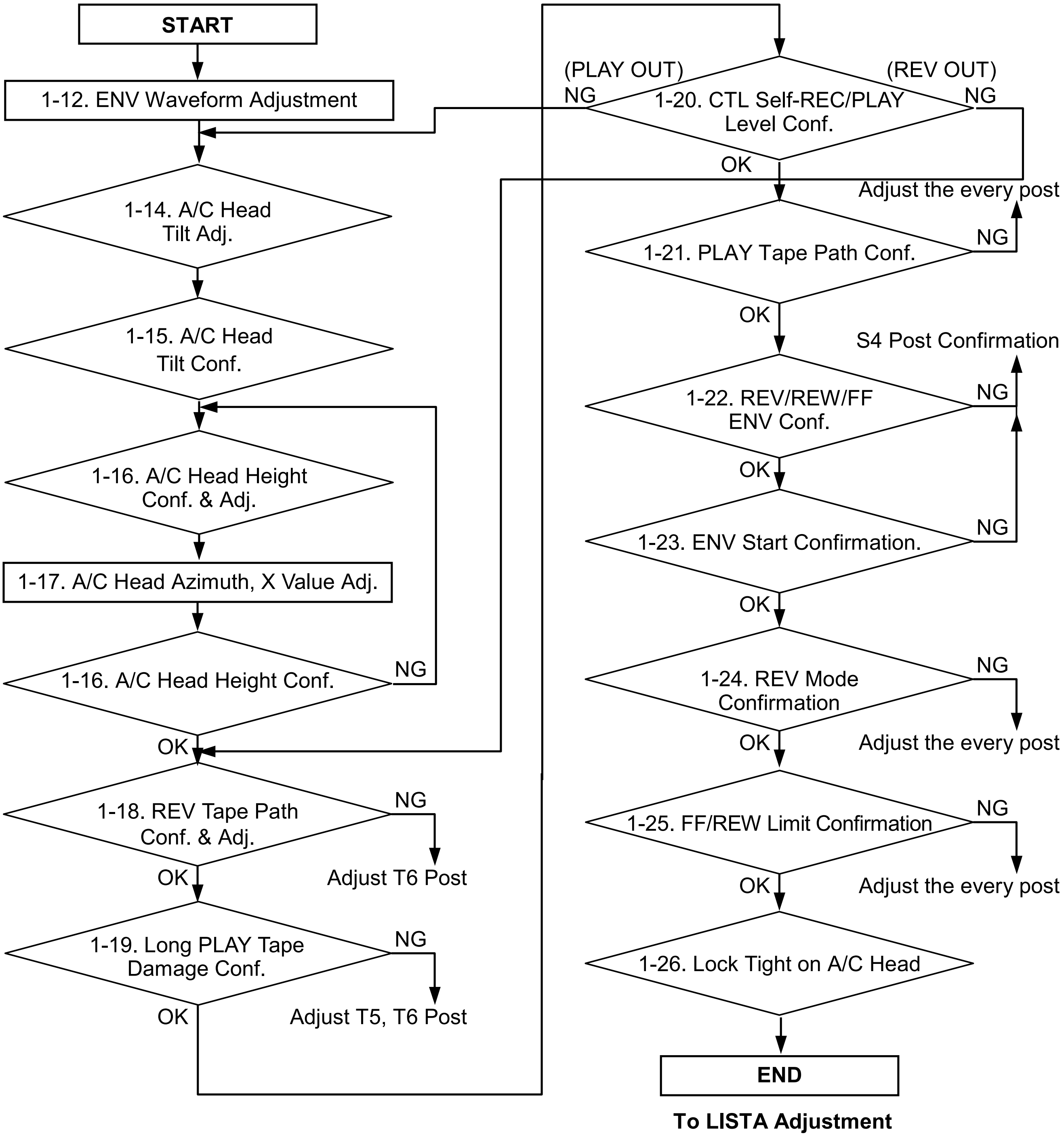


Figure 1-10-2

NOTE:
Do not use any alignment tape for this adjustment. Pay attention not to damage the tape.

1-11. Tape Path Adj. Procedure


START
1-12. ENV Waveform Adjustment
1-14. A/C Head Tilt Adj.
1-15. A/C Head Tilt Conf.
1-16. A/C Head Height Conf. & Adj.
1-17. A/C Head Azimuth, X Value Adj.
1-16. A/C Head Height Conf.
NG
OK
1-18. REV Tape Path Conf. & Adj.
NG
Adjust T6 Post
OK
1-19. Long PLAY Tape Damage Conf.
NG
Adjust T5, T6 Post
OK
(PLAY OUT)
NG
1-20. CTL Self-REC/PLAY Level Conf.
(REV OUT)
NG
OK
Adjust the every post
1-21. PLAY Tape Path Conf.
NG
OK
S4 Post Confirmation
1-22. REV/REW/FF ENV Conf.
NG
OK
1-23. ENV Start Confirmation.
NG
OK
1-24. REV Mode Confirmation
NG
Adjust the every post
OK
1-25. FF/REW Limit Confirmation
NG
Adjust the every post
OK
1-26. Lock Tight on A/C Head
END
To LISTA Adjustment

1-12. ENV Waveform Adjustment

TP	TP105: R/P L ENV (RF/EQ Board: Slot 1) TP5: R/P L HSW (RF/EQ Board: Slot 1)
ADJ.	S2, T2 Post Height
MODE	PLAY (ATF)
TAPE	VFM3580KM or VFM3580KL
M. EQ	Oscilloscope
TOOL	VFK1149B (Post Driver)
SPEC.	V1/Vmax, V2/Vmax, V3/Vmax ≥ 0.8

1. Play back the alignment tape.
2. Adjust the T2 post and then the S2 post height so that the ENV output is within the specification.
   Upon adjusting the S2 and T2 posts, first make a post higher until the output becomes small, and then lower until the output becomes flat.
3. After the adjustment, unload and load a tape and confirm that the envelope is still in the specification as shown in figure 1-12-1.

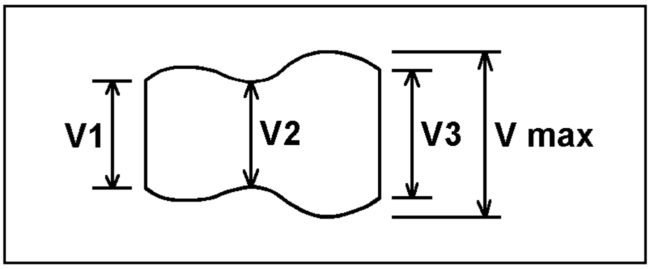


Figure 1-12-1

1-13. A/C Head Adjustment Method (Summery)

Adjustment Item	Screw	Adjustment Method	Torque
Tilt Adj.	A	1) Adjust screw (A) after loosen screw (G). Counter clockwise (Tighten) --- Decrease Cue Level. Clockwise (Loosen)--- Increase Cue Level 2) Tighten screw (G) after finishing adjusting the screw (A). (Refer to following item "Azimuth Fix".)	(Adjustment)
Azimuth Adj.	F	1) Phase is adjusted by screw (F) after loosen screw (G). 2) Tighten screw (G) after finishing adjusting the screw (F). (Refer to following item "Azimuth Fix".)	(Adjustment)
Azimuth Fix	G	Screw (G) should always be tightened during adjustment except Tilt and Azimuth adjustments.	10cN·m (1.0Kgf·cm)
Height Adj.	B	Counter clockwise (Tighten): In case CTL level increases by pressing down the A/C Head. Clockwise (Loosen): In case CTL level increases by lifting up the A/C Head. **NOTE 1: Please refer to figure 1-13-2 for the portion to lift up and press down the A/C Head.** **NOTE 2: To lift up and press down A/C Head, do it gently by finger.**	(Adjustment)
Height Fix	H	After the height adjustment, tighten screw (H) to fix height of A/C Head.	25cN·m (2.5Kgf·cm)
X-Value Adj.	C, D	1) Adjust X-Value at Hole (E) by VFK0357, then tighten the screw (C) and (D) to fix A/C Head horizontal position. 2) Tap the portion shown in the fig. 1-13-3 to confirm the phase shift.	25cN·m (2.5Kg·cm)

Screw	Tool for Adjustment
B	VFK1150A (5.5mm Nut Driver)
A, F	VFK1178A (0.89mm Hex Driver)
C, D, G, H	VFK1148A (1.5mm Hex Driver)
Hole E	VFK0357 (Eccentric Driver)

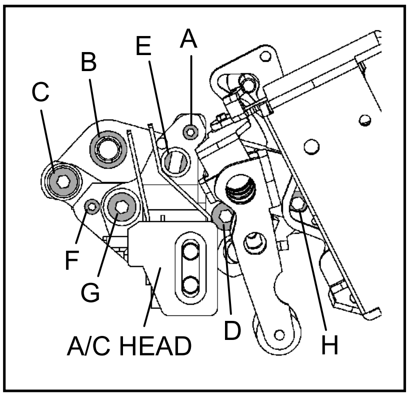


Figure 1-13-1
A/C Head Adjust Screws

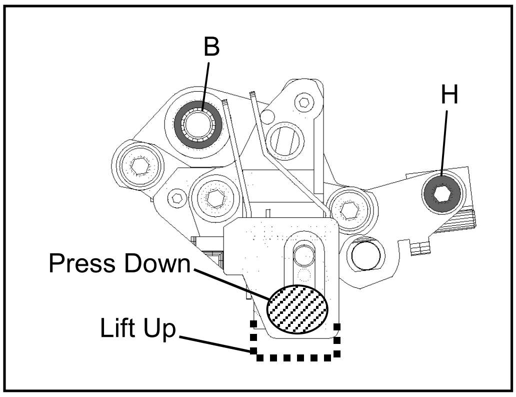


Figure 1-13-2
A/C Head Height Confirmation

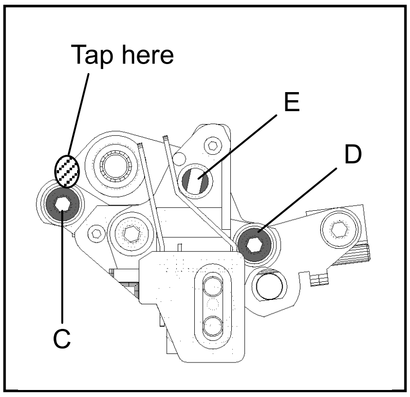


Figure 1-13-3
A/C Head X-Value Adjustment

1-14. A/C Head Tilt Adjustment

TP	A/C Head Screw (A), (G)
TOOL	VFK1586 (Mech. Neutral plate) VFK1589 (A/C Head Tilt Adjust Tool) VFK1154 (Post Height Adjust Tool) VFK1178A (0.89mm Hex Driver) VFK1148A (1.5mm Hex Driver)
SPEC.	There is no gap between A/C Head and Post Height Adjust Tool. (0° ± 10°)

1. Place the mechanical chassis in the loading completion mode.
2. Mount the A/C Head Tilt Adjust Tool on the Mech. Neutral Plate as shown in figure 1-14-2.
3. Put the Mech. Neutral Plate on the Reel Table.
4. Put the Post Height Adjust Tool along the slope portion of A/C Head Tilt Adjust Tool to A/C Head. Confirm that the Post Height Adjust Tool is fitted to the surface of the A/C Head.

< Note >:

Loosen the screw (G) and adjust the screw (A). Check the gap between the A/C head and post height adjustment tool after the tightening the screw (G) at specified torque.

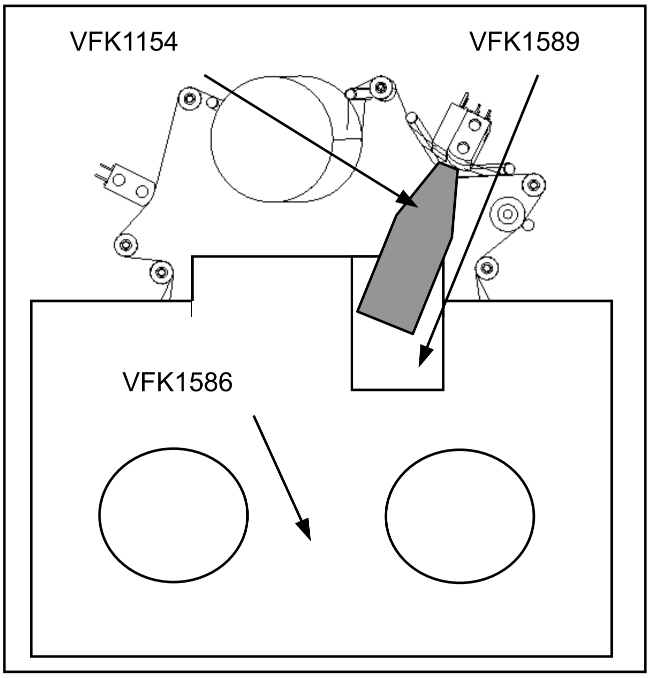

VFK1154
VFK1589
VFK1586

Figure 1-14-1

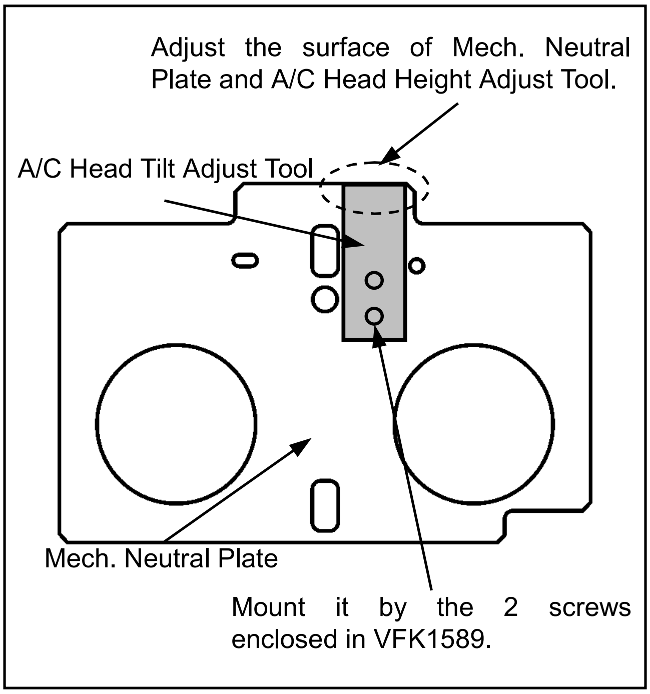

Adjust the surface of Mech. Neutral Plate and A/C Head Height Adjust Tool.
A/C Head Tilt Adjust Tool
Mech. Neutral Plate
Mount it by the 2 screws enclosed in VFK1589.

Figure 1-14-2

1-15. A/C Head Tilt Confirmation

TP	TP102: CUE AUDIO (RF_CUE Board)
MODE	PLAY
TAPE	VFM3580KM or VFM2580KL
M. EQ	Oscilloscope
SPEC.	A/Amax ≥ 0.8

1. Confirm the screws (G) and (H) are tightened on A/C head.
2. Play back the 6MHz CUE AUDIO portion of the alignment tape.
3. Press the Tension Arm to the direction P as shown in the figure 1-15-2. Confirm that the fluctuation of output level is within the specification as shown in figure 1-15-1.

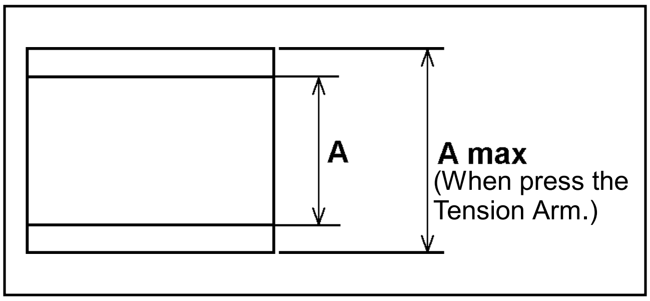


Figure 1-15-1

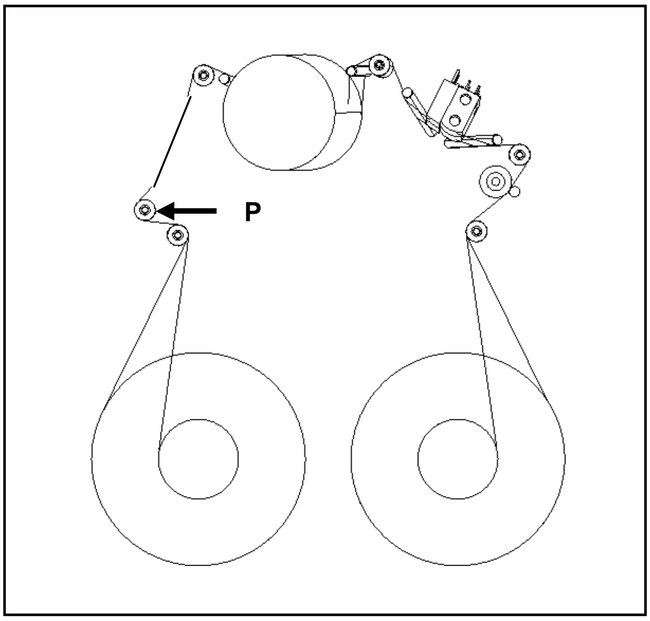


Figure 1-15-2

1-16. A/C Head Height Confirmation & Adjustment

TP	TP102: CUE AUDIO (RF_CUE Board) TP2: CTL (A_PROC Board: Slot 2)
ADJ.	Screw B, H (A/C Head)
MODE	25M Mode PLAY
TAPE	VFM2580KM or VFM2580KL
TOOL	VFK1150A (5.5mm Nut Driver), VFK1148A (1.5mm Hex Driver)
SPEC.	A/Amax ≥ 0.95, C1, C2 ≥ 2.0 V

1. Press down and lift up the A/C Head lightly, and confirm that the CTL and CUE output level is within the specification. (Please refer to the figure 1-13-2 where to lift up and press down.)
2. If it is out of specification, adjust the height to maximize the CUE output level by loosing the screw (H) and turning the screw (B).
3. After adjustment, tighten the screw (H) and confirm the condition.
4. A/C Head Height Adjustment should be done alternately with Azimuth/X-Value Adjustment.

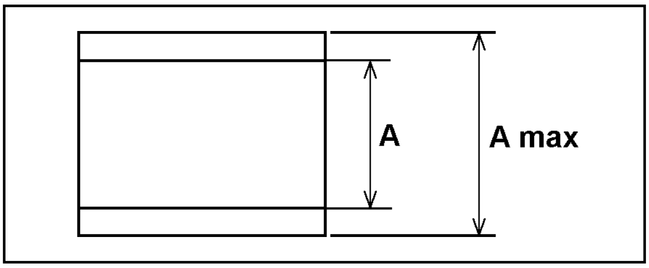


Figure 1-16-1

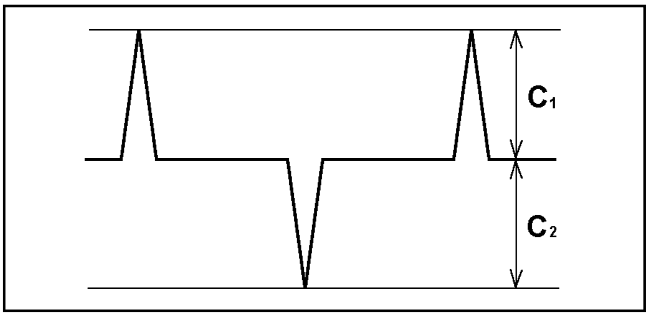


Figure 1-16-2

1-17. A/C Head Azimuth and X-Value Adjustment

SPEC.	1. HDLP Mode: 250us ≤ t1, t2 ≤ +250us 50M Mode: 125us ≤ t1, t2 ≤ +125us 2. X-Value: 27 or Less (Select "X-Value HDLP" on the Service Mnuand confirm the X-Value.)	**TP**	TP105: R/P L ENV (RF EQ Board: Slot 1) TP5: R/P L HSW (RF EQ Board: Slot 1) TP102: CUE (RF CUE Board: Slot 2) TP4: CTL (A PROC Board: Slot 2)
		M. EQ	Oscilloscope
		TOOL	VFK0357 (Eccentric Driver) VFK1148A (Hex Driver)
ADJ.	A/C Head		VFK1209A (Torque Driver)
MODE	See below		VFK0912 (Post Axis Driver)
TAPE	VFM3582KM or VFM3582KL		

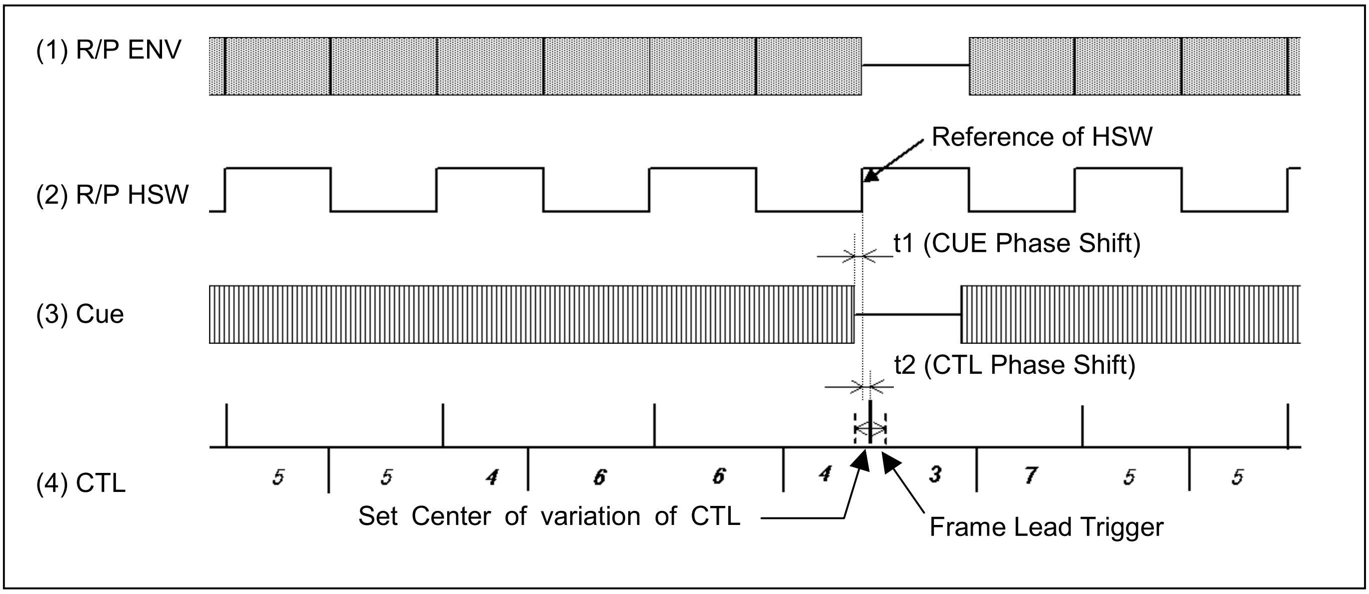


Figure 1-17-1

1. Play back the X-Value Alignment Tape in the 50M mode.
2. Adjust the Azimuth so that the reference CTL matches with non-recorded portion of the CUE in the phase (t2). (Refer to the Paragraph “1-13. A/C Head Adjustment Procedure”)
3. Confirm the non-recorded portion of R/P ENV, and select proper HSW.
4. Adjust X-Value so that the reference of HSW matches with the CTL frame lead trigger in the phase (t1). To adjust X-value, loosen the screws (C) and (D), and adjust the hole (E) by using the Eccentric Driver. At this time adjust the phase simultaneously with the Azimuth so that the CTL and CUE phase is kept.
5. After tightening the every screw on the A/C Head, tap the top plate (portion as shown in figure 1-13-3) of A/C Head, and then confirm the phase does not shift.
6. Select the SERVO ADJUST menu on the Service Menu, and select the item “A13: X-VALUE HDLP”.
7. Play back the Alignment Tape, and press the “F” button and confirm that the “PLAY ALIGNMENT TAPE OK?” message appears.
8. Press the “F” button for more than 3 seconds so that the measuring value is displayed on the screen.

1-18. REV Tape Path Confirmation and Adjustment (T6 Post Height)

ADJ.	T6 Post Height
TP	TP4: A PROC Board (Slot 2)
MODE	25M PLAY (+1) 25M REV (-1):
TAPE	VFM3582KM or VFM3582KL
TOOL	VFK1148A (Post Driver)
SPEC.	C1 ≥ Cp1 x 0.75 C2 ≥ Cp2 x 0.75 Lower limit at T5 post in REV –1.0 mode. Tape has no curl and bent at T5 and T6 Post.

<How to place the VTR in the REV -X1>

1) Open the service menu.
2) Press the both “PLAY” and “REW” button together in the VTR operation mode.

1. Perform 1x and –1x playback alternately. Confirm the CTL output level is within the specification in the figure 1-18-1. If it is out of specification, adjust the T6 Post Height.
2. When adjusting a post, try it by 45 degrees step.
3. Place the unit in the –x1 playback again, and confirm that the CTL output level (C1/ C2) is more than 75% of the normal playback (CP1/ CP2).
   Also confirm that the limit condition of the P5 and P6 posts is as shown in figure 1-18-1.
4. If it is out of specification, adjust T6 post height. “1-2. Post Height Pre-Adjustment”.

< Post Limit >

Post	A	B	C	D	E	F
T5	NG	NG	OK	NG	NG	NG
T6	OK	OK	OK	NG	NG	NG

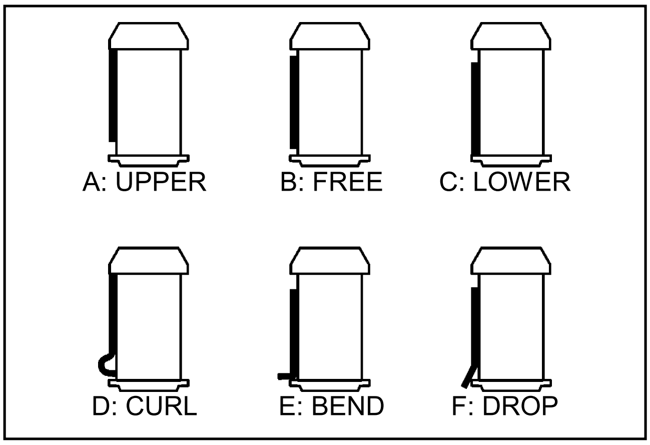


Figure 1-18-1

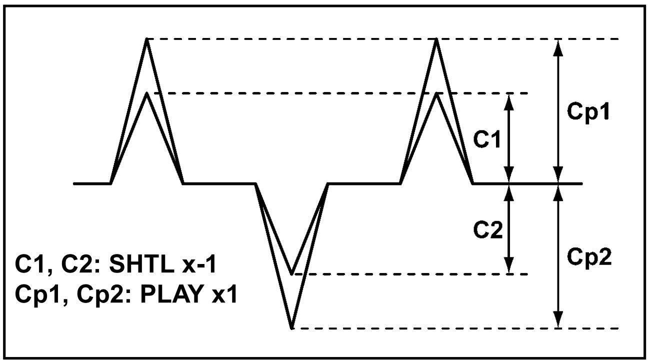


Figure 1-18-2

1-19. Long PLAY Tape Damage Confirmation CUE/REV Damage Confirmation

MODE	Change CUE and REV x-1 mode alternately
TAPE	Long PLAY Tape L-Cassette (Beginning) (AJ-5P93LP: Recorded Tape)
SPEC.	No damage on the tape at T5 and T6 posts

1. Prepare a 50M recorded tape.
   Confirm that there is no tape damage in intermittent mode and while switching CUE and REV.
2. If it is out of specification, adjust T5 and T6 posts height by following the Paragraph “1-2. Post Height Pre-Adjustment”.

Note :

See page MECH-1 for post location.

1-20. CTL Self-REC/PLAY Output Level Confirmation

TP	TP4: A PROC Board (Slot 2)
MODE	PLAY REV x 1 REV x 0.2
TAPE	Blank M Cassette Tape
M. EQ	Oscilloscope
SPEC.	See below

(Specification)

CTL Output Level: C1, C2		
PLAY	REV x -1	REV x -0.2
C1,C2 ≥ 1.8V	C1,C2 ≥ 1.4V	C1,C2 ≥ 1.2V

1. Confirm all screws of the A/C Head are fixed.
2. Record and play back any signal. Confirm that the CTL output level on each mode is within the specification.
3. In case PLAY mode is out of specification, confirm the A/C Head Height again. (Refer to Paragraph “1-16. A/C Head Height Confirmation”.)
4. In case REV x-1 mode is out of specification, confirm the T6 Post Height again. (Refer to Paragraph “1-18. REV Tape Path Confirmation and Adjustment”.)

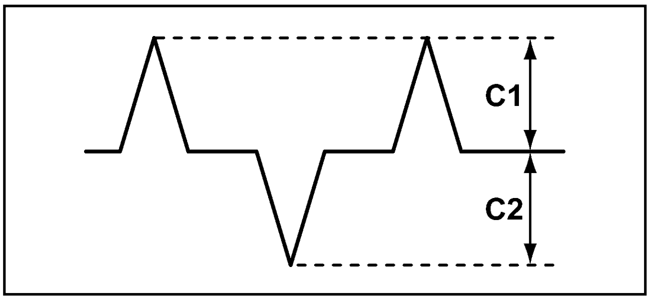


Figure 1-20-1

1-21. PLAY Tape Path Limit Confirmation

MODE	PLAY
TAPE	VFM3580KM or VFM3580KL
SPEC.	See below

1. Play Back the tape and confirm the post limits by eyes.

Post Name	**Tape Limit (see figure)**					
	A	**B**	**C**	**D**	**E**	**F**
S4 Post	NG	OK	OK	NG	NG	NG
S3 Post	NG	NG	OK	NG	NG	NG
S2 Post	OK	NG	NG	NG	NG	NG
T2 Post	OK	NG	NG	NG	NG	NG
T5 Post	NG	NG	OK	NG	NG	NG
T6 Post	OK	OK	OK	NG	NG	NG

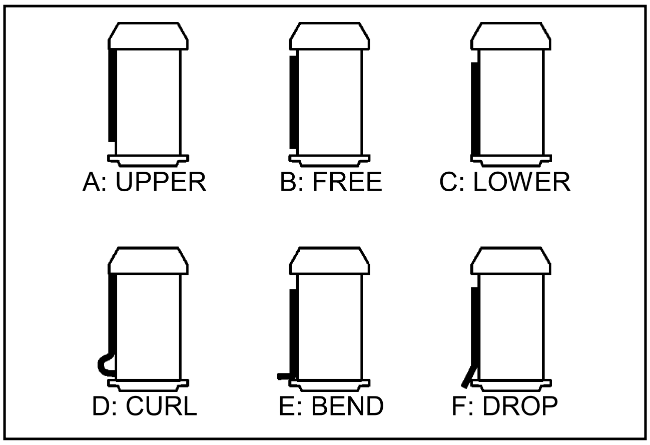


Figure 1-21-1

2. If any is out of specification, confirm an appropriate adjustment point.

Post Name	**Adjust**	**Procedure**
S4 Post	S3, S4 Post	Post Height Pre-Adjustment
S3 Post		
S2 Post	S2, T2 Post	Envelope Waveform Adjustment
T2 Post		
T5 Post	T5 Post	Post Height Pre-Adjustment
T6 Post	T6 Post	

Note :
See page MECH-1 for post location.

1-22. Envelope Confirmation on REV/REW/FF mode

TP	TP105: A PROC Board (Slot 2) TP5: A PROC Board (Slot 2)
MODE	REV, REW, FF
TAPE	VFM3580KM or VFM3580KL
M. EQ	Oscilloscope
SPEC.	Waveform should be Diamond Style. All the peak level should be more than 90% of maximum level. V/V max ≥ 0.9

1. Confirm that the envelope in REV, REW and FF mode is as follows:
   - Waveform must be diamond shape.
   - All peak levels must be more than 90% of maximum level.
     V/V max ≥ 0.9
2. If it is out of specification, adjust S3 post height. (Refer to the paragraph "1-2. Post Height Pre-Adjustment".)

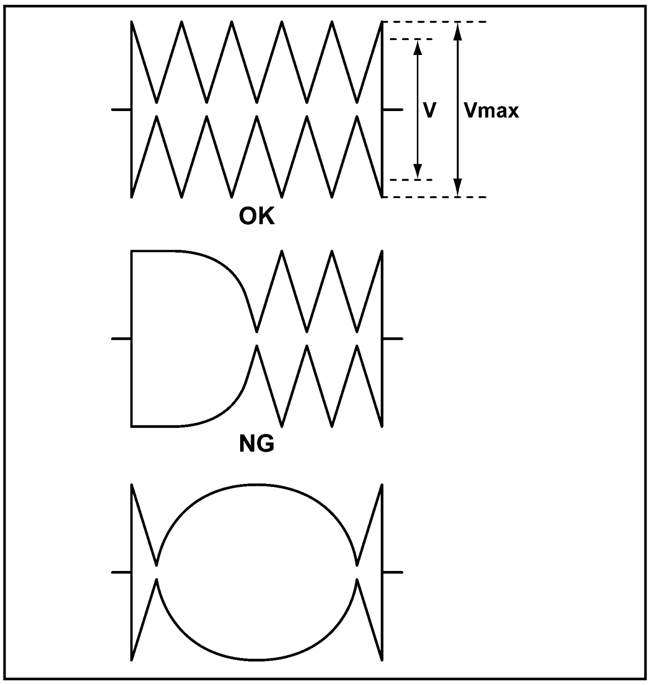


Figure 1-22-1

1-23. Envelope Start Confirmation

TP	TP105: A PROC Board (Slot 2) TP5: A PROC Board (Slot 2)
MODE	REW/REV → PLAY, FF → PLAY Loading completion → PLAY,
TAPE	Beg. of L-Cassette (123 min., Recorded)
M. EQ	Oscilloscope
SPEC.	Envelope comes immediately

This adjustment must be done after "Envelope Waveform Adjustment".

1. Confirm that the envelope comes immediately, when the mode switches from REW to PLAY, REV to PLAY, FF to PLAY and Lording to PLAY and STBY OFF to PLAY mode.
2. If it is out of specification, adjust the post height of the S3 post. (Refer to the paragraph "1-2. Post Height Pre-Adjustment".)

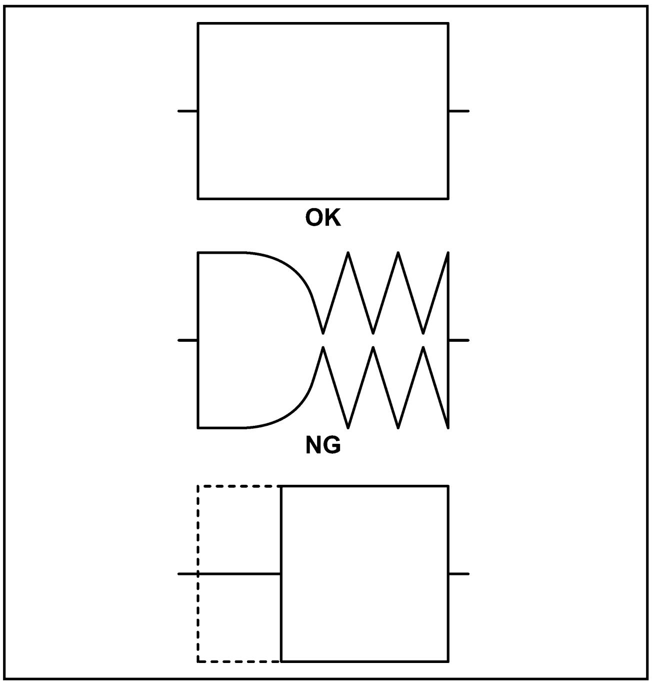


Figure 1-23-1

1-24. REV mode Confirmation

MODE	REW
TAPE	VFM3580KM or VFM3580KL
SPEC.	See below

1. Place the unit in REV mode and confirm each post limit.
2. This confirmation must be done after all tape path adjustments.

Post Name	**Tape Limit (see figure)**					
	A	**B**	**C**	**D**	**E**	**F**
S4 Post	OK	OK	OK	NG	NG	NG
S3 Post (Tension Post)	NG	OK	OK	NG	NG	NG
S2 Post	OK	NG	NG	NG	NG	NG
T2 Post	OK	OK	OK	NG	NG	NG
T5 Post	NG	NG	OK	NG	NG	NG
T6 Post	OK	OK	OK	NG	NG	NG

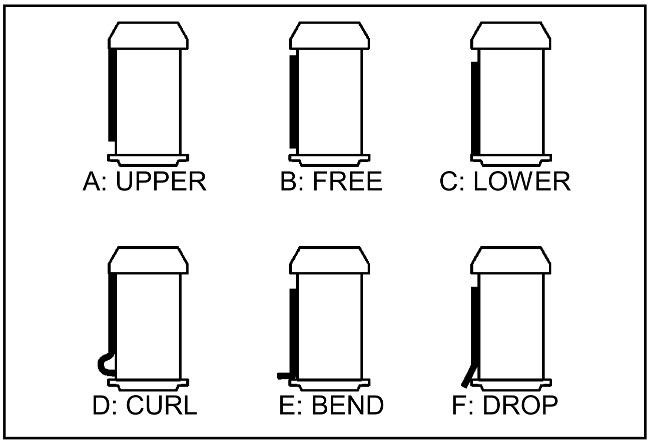


Figure 1-24-1

Note :
See page MECH-1 for post location.

1-25. FF/REW mode Limit Confirmation

MODE	FF, REW
TAPE	VFM3580KM or VFM3580KL
SPEC.	See the following table.

1. Place the unit in FF and REW mode and confirm each post limit.
2. This confirmation must be done after all tape path adjustments.

Post Name	**Tape Limit (see figure 1-24-1)**					
	A	**B**	**C**	**D**	**E**	**F**
S4 Post	OK	OK	OK	NG	NG	NG
S3 Post (Tension Post)	NG	OK	OK	NG	NG	NG
S2 Post	OK	NG	NG	NG	NG	NG
T2 Post	OK	OK	OK	NG	NG	NG
T5 Post	OK	OK	OK	NG	NG	NG
T6 Post	OK	OK	OK	NG	NG	NG

1-26. Lock Tight on A/C Head

<A/C Head Screw Lock Tight>

	Screw A, F	**Screw G**
Lock Tight Glue Quantity	Half of the Screw G	1/3 of the Screw

1. Fix the screw by the Lock Tight Glue after A/C Head Adjustment as shown in the figure below.
2. Remove the screw lock tight upon the adjustment.

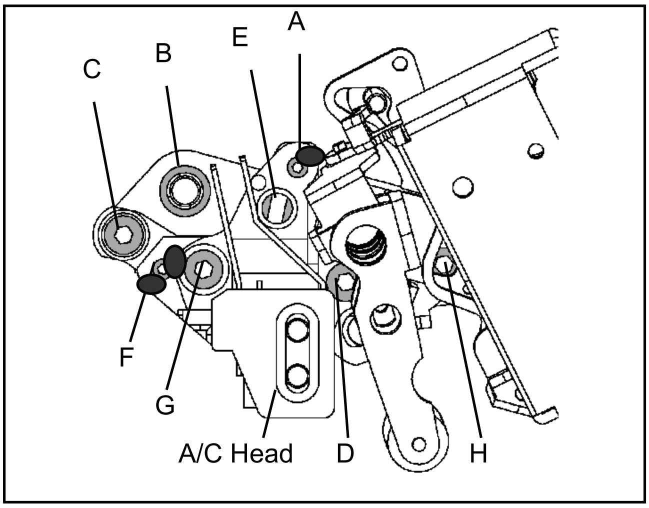
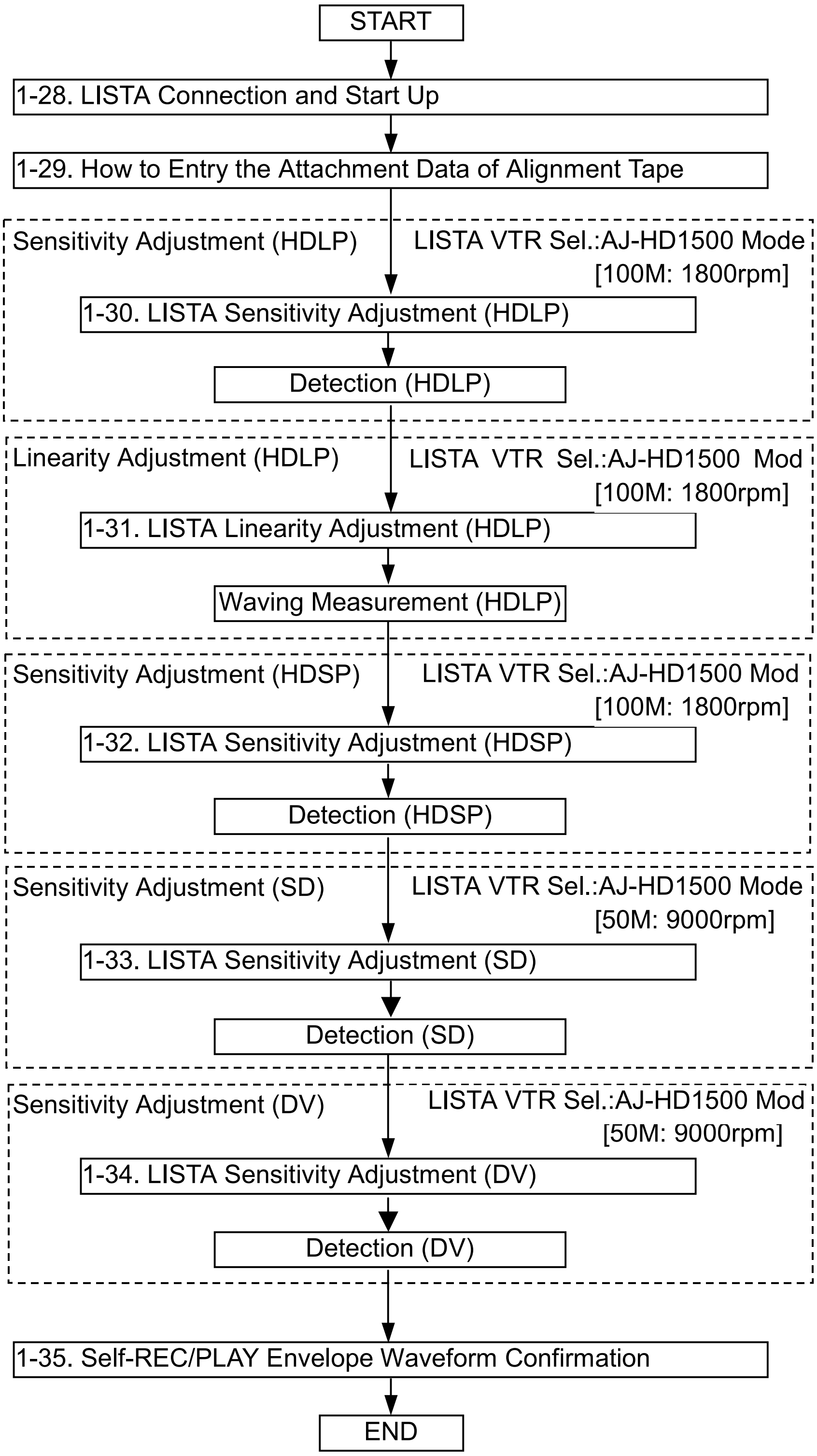


Figure 1-26-1

1-27. LISTA Adjustment Procedures

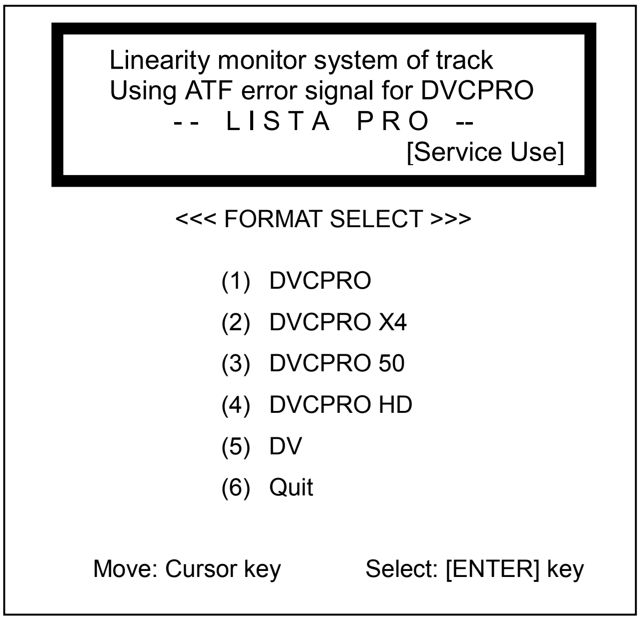

START
1-28. LISTA Connection and Start Up
1-29. How to Entry the Attachment Data of Alignment Tape
Sensitivity Adjustment (HDLP)
LISTA VTR Sel.:AJ-HD1500 Mode
[100M: 1800rpm]
1-30. LISTA Sensitivity Adjustment (HDLP)
Detection (HDLP)
Linearity Adjustment (HDLP)
LISTA VTR Sel.:AJ-HD1500 Mod
[100M: 1800rpm]
1-31. LISTA Linearity Adjustment (HDLP)
Waving Measurement (HDLP)
Sensitivity Adjustment (HDSP)
LISTA VTR Sel.:AJ-HD1500 Mod
[100M: 1800rpm]
1-32. LISTA Sensitivity Adjustment (HDSP)
Detection (HDSP)
Sensitivity Adjustment (SD)
LISTA VTR Sel.:AJ-HD1500 Mode
[50M: 9000rpm]
1-33. LISTA Sensitivity Adjustment (SD)
Detection (SD)
Sensitivity Adjustment (DV)
LISTA VTR Sel.:AJ-HD1500 Mod
[50M: 9000rpm]
1-34. LISTA Sensitivity Adjustment (DV)
Detection (DV)
1-35. Self-REC/PLAY Envelope Waveform Confirmation
END

1-28. LISTA Connection and Start Up

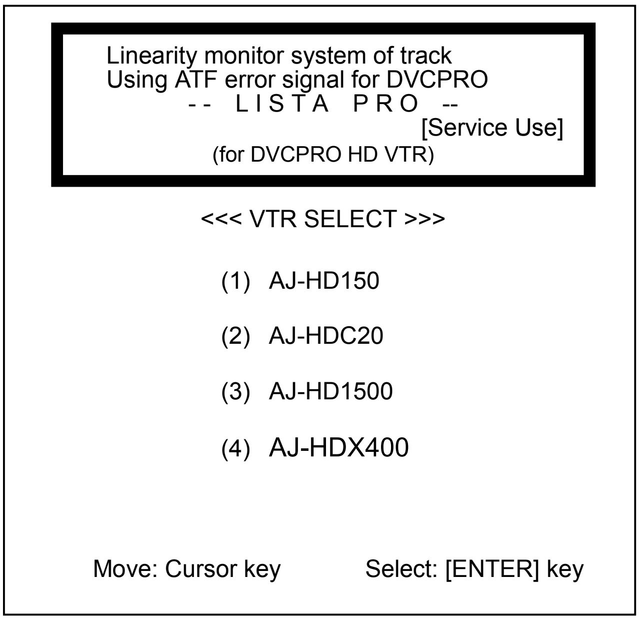
TAPE	VFM3781KML (LISTA), VFK3581KM/L (LISTA), VFM3000EDS (DV LISTA)
M. EQ	Personal Computer with A/D Board installed (Requires Window 95® or 98® and computer must have LSA slot.)
TOOL	VFK1481N (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board)
TP	TP405: ATF ERR RPL/TRL (RF/EQ Board: Slot 1) TP402: ATF ERR PBR13 (RF/EQ Board: Slot 1) TP5: R/P L HSW (RF/EQ Board: Slot 1) TP7: TR L HSW (HDSP/50) (RF/EQ Board: Slot 1) TP2: PB R13 HSW (DV) (RF/EQ Board: Slot 1)

1. Create a directory and copy all files on the floppy disk (VFK1481N: LISTA Software) to the new directory. (**i.e.:** C: \ LISTA)
2. Connect the LISTA cable to A/D Board in the PC.
3. Connect the clips of the LISTA cable to test points on the P.C.Board. (Refer to Items "Sensitivity Adjustment" and "Linearity Adjustment".)
4. Execute the LISTA software on DOS mode by typing 'LISTA' and pressing ENTER key.
5. When the **<<< FORMAT SELECT >>>** display appears, select <4> DVCPRO HD.
6. When the **<<< VTR SELECT >>>** display appears, select the item "<3>AJ-HD1500" according to the adjustment item as shown the table below.

Adjustment Item	VTR SELECT	FORMAT	Alignment Tape
HDLP Sensitivity Adjustment	AJ-HD1500	100M: 1800rpm	VFM3781KML
HDLP Linearity Adjustment			
HDSP Sensitivity Adjustment			VFM3581KM or KL
SD Sensitivity Adjustment		50M: 9000rpm	
DV Sensitivity Adjustment			VFM3000EDS



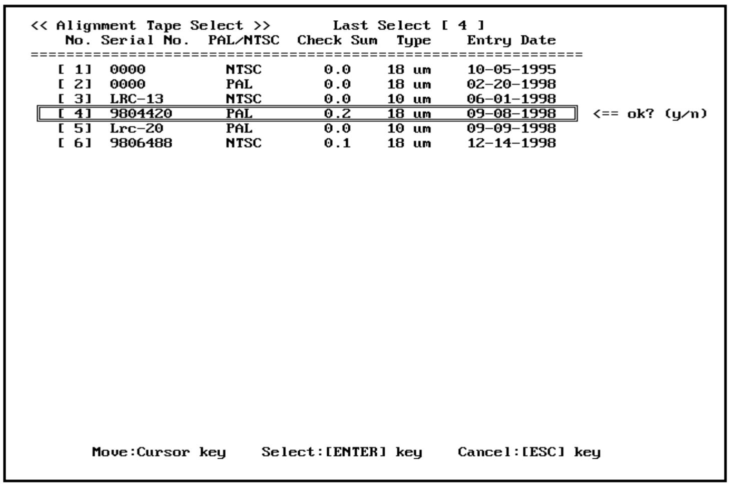
```
Linearity monitor system of track
Using ATF error signal for DVCPRO
        -- LISTA PRO --
                      [Service Use]

       <<< FORMAT SELECT >>>

          (1)  DVCPRO
          (2)  DVCPRO X4
          (3)  DVCPRO 50
          (4)  DVCPRO HD
          (5)  DV
          (6)  Quit

Move: Cursor key     Select: [ENTER] key
```



```
Linearity monitor system of track
Using ATF error signal for DVCPRO
        -- LISTA PRO --
                      [Service Use]
      (for DVCPRO HD VTR)

        <<< VTR SELECT >>>

          (1)  AJ-HD150
          (2)  AJ-HDC20
          (3)  AJ-HD1500
          (4)  AJ-HDX400

Move: Cursor key     Select: [ENTER] key
```

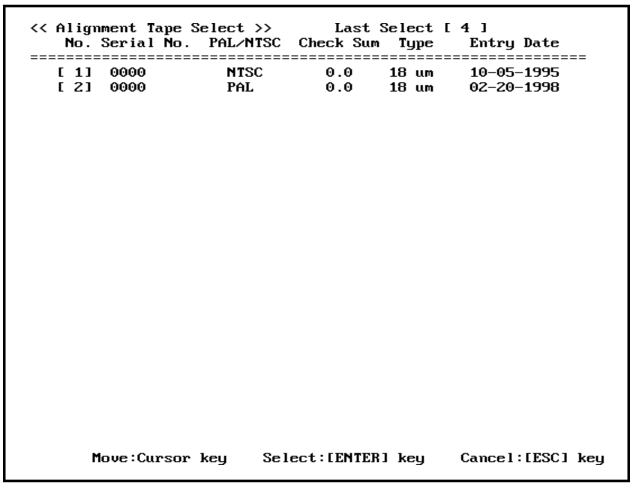
7. Select the Serial number of the Alignment tape on the screen. If the alignment tape to be used is not registered, the compensation data needs to be entered. Press the ESC key, and select the item "<4> Alignment Tape" in the main menu.

< In case Alignment Tape data is already registered >



```
<< Alignment Tape Select >>        Last Select [ 4 ]
    No. Serial No.  PAL/NTSC  Check Sum  Type     Entry Date
==============================================================
   [ 1]  0000          NTSC        0.0     18 um     10-05-1995
   [ 2]  0000          PAL         0.0     18 um     02-20-1998
   [ 3]  LRC-13        NTSC        0.0     10 um     06-01-1998
   [ 4]  9804420       PAL         0.2     18 um     09-08-1998    <== ok? (y/n)
   [ 5]  Lrc-20        PAL         0.0     10 um     09-09-1998
   [ 6]  9806488       NTSC        0.1     18 um     12-14-1998

         Move:Cursor key    Select:[ENTER] key     Cancel:[ESC] key
```

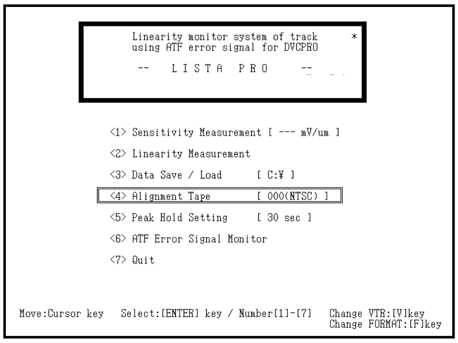
< In case Alignment Tape data is not registered >



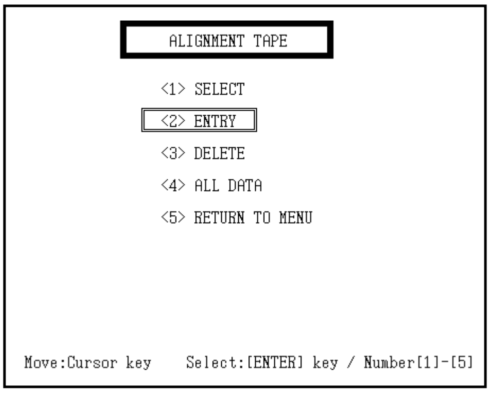
```
<< Alignment Tape Select >>        Last Select [ 4 ]
    No. Serial No.  PAL/NTSC  Check Sum  Type     Entry Date
==============================================================
   [ 1]  0000          NTSC        0.0     18 um     10-05-1995
   [ 2]  0000          PAL         0.0     18 um     02-20-1998

         Move:Cursor key    Select:[ENTER] key     Cancel:[ESC] key
```

1-29. How to Entry the Attachment Data of Alignment Tape

1. Select the item “<4> Alignment Tape” on the LISTA main menu.
2. Select the item “<2> ENTRY” on the alignment menu.
3. In the <<Alignment Tape Data Entry>> screen, input the Serial Number of alignment tape. And input the number “0” or “1” to select the PAL/NTSC. And select the type; “0” for DVCPRO, “1” for DV, or “2” for HDLP.
4. Input the numerical value on the data sheet. If inputting a wrong number.
5. After entry of data, select “<1> SELECT” on the Alignment Tape Menu and select the serial number of the alignment tape.



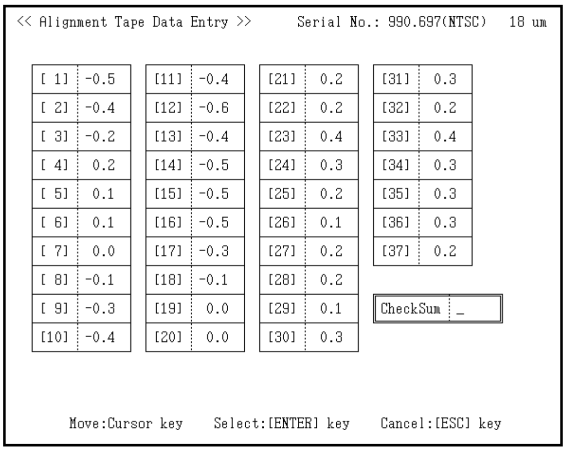
```
          Linearity monitor system of track      *
          using ATF error signal for DVCPRO

           --    L I S T A   P R O     --

      <1> Sensitivity Measurement [ --- mV/um ]
      <2> Linearity Measurement
      <3> Data Save / Load       [ C:¥ ]
      <4> Alignment Tape         [ 000(NTSC) ]
      <5> Peak Hold Setting      [ 30 sec ]
      <6> ATF Error Signal Monitor
      <7> Quit

Move:Cursor key   Select:[ENTER] key / Number[1]-[7]   Change VTR:[V]key
                                                        Change FORMAT:[F]key
```



```
        ALIGNMENT TAPE

      <1> SELECT
      <2> ENTRY
      <3> DELETE
      <4> ALL DATA
      <5> RETURN TO MENU

Move:Cursor key    Select:[ENTER] key / Number[1]-[5]
```

<<Alignment Tape Data Entry>>

Tape Serial No. ?   9903697
PAL (0) / NTSC (1) ? 1
Tape Type18um (0 or [ENTER]) / 10um (1) 19um (2)



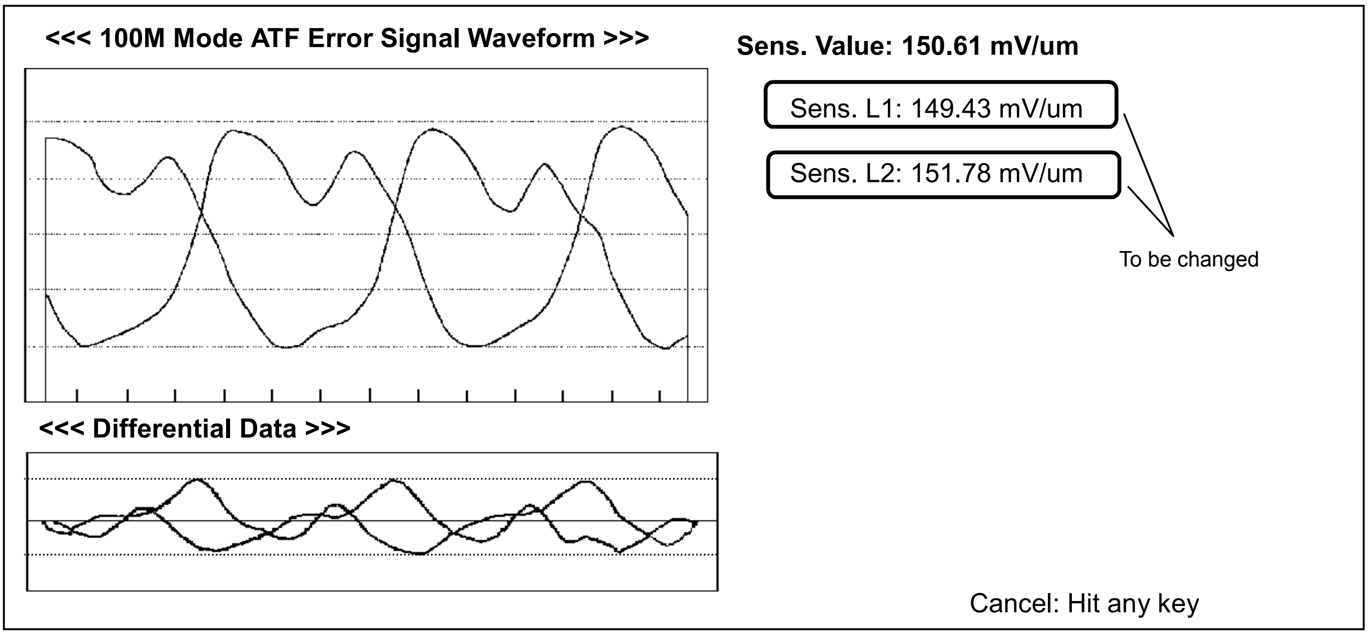
```
<< Alignment Tape Data Entry >>      Serial No.: 990.697(NTSC)   18 um

 [ 1] -0.5   [11] -0.4   [21]  0.2   [31]  0.3
 [ 2] -0.4   [12] -0.6   [22]  0.2   [32]  0.2
 [ 3] -0.2   [13] -0.4   [23]  0.4   [33]  0.4
 [ 4]  0.2   [14] -0.5   [24]  0.3   [34]  0.3
 [ 5]  0.1   [15] -0.5   [25]  0.2   [35]  0.3
 [ 6]  0.1   [16] -0.5   [26]  0.1   [36]  0.3
 [ 7]  0.0   [17] -0.3   [27]  0.2   [37]  0.2
 [ 8] -0.1   [18] -0.1   [28]  0.2
 [ 9] -0.3   [19]  0.0   [29]  0.1   CheckSum _
 [10] -0.4   [20]  0.0   [30]  0.3

      Move:Cursor key    Select:[ENTER] key    Cancel:[ESC] key
```

(Numbers are sample only, you must load correct numbers from Alignment Tape.)

1-30. LISTA Sensitivity Adjustment and Detection (HDLP)

TP	TP405 : ATF ERR RPL/TRL (RF/EQ Board: Slot 1) TP5 : R/P L HSW (RF/EQ Board: Slot 1) TG1 : GND (RF/EQ Board: Slot 1)
ADJ. (ATF GAIN)	Service menu: **A08: RPL GAIN HDL**
MODE	PLAY
LISTA	AJ-HD1500 [100M:1800rpm]
TAPE	VFM3781KML (LISTA)
SPEC.	150 ± 15 mV/um

1. Select “<3>AJ-HD1500” [100M: 1800rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
3. Open the SERVO ADJUST menu and select A08: RPL GAIN HDL.
4. Play back the LISTA Alignment Tape.
5. Select the item “<6> ATF Error Signal Monitor” on the LISTA main menu, and when message “1.2% Speed. . .” appears, press the Enter key.
6. Adjust EVR so that the “Sens. Value 1” on the upper right corner of the screen is within the specification.
7. After the adjustment, press the ESC key to return to the main menu.



<<< 100M Mode ATF Error Signal Waveform >>>
<<< Differential Data >>>

Sens. Value: 150.61 mV/um

Sens. L1: 149.43 mV/um

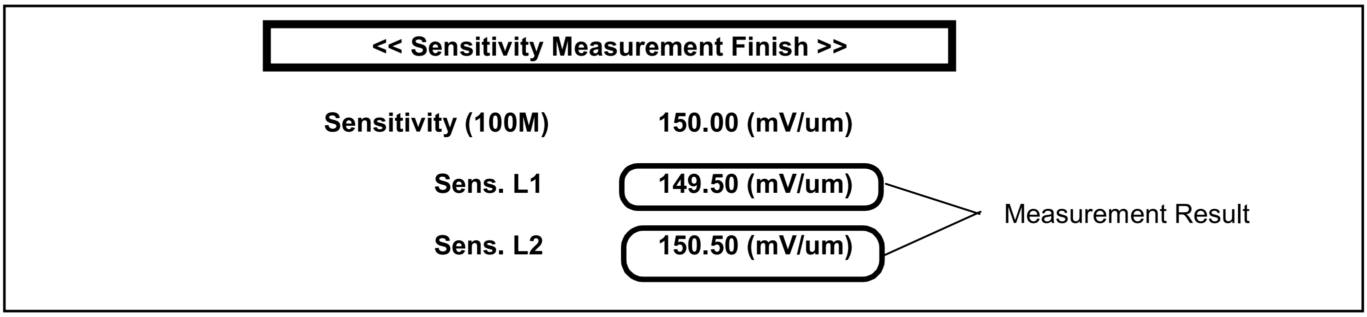
Sens. L2: 151.78 mV/um

To be changed

Cancel: Hit any key

<Sensitivity Detection Procedure>

1. Open the SERVO ADJUST menu.
2. Select A08: RPL GAIN HDL.
3. Play Back the LISTA Alignment Tape.
4. Select the item “<1> Sensitivity Measurement” on the LISTA main menu, and then “1.2% Speed. . .” appears on the screen. Press the Enter key, and then start measurement of the sensitivity value.
5. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and “Sensitivity = Sensitivity Value” are displayed on screen.
6. If it is out of specification, repeat the step item 3, 4 and 5.
7. If still out of specification, execute the “Sensitivity Adjustment” again.



<< Sensitivity Measurement Finish >>

Sensitivity (100M) **150.00 (mV/um)**

Sens. L1 **149.50 (mV/um)**

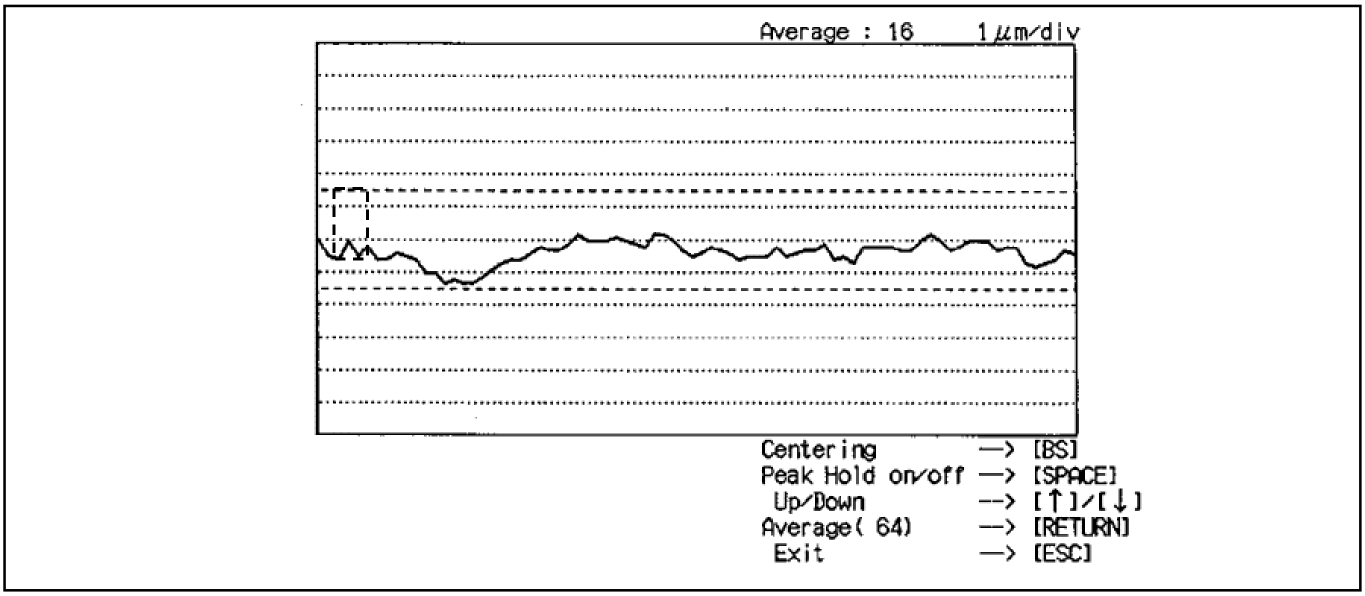
Sens. L2 **150.50 (mV/um)**

Measurement Result

1-31. LISTA Linearity Adjustment and Waving Measurement

TP	TP405: ATF ERR RPL/TRL (RF/EQ Board: Slot 1), TP5: R/P L HSW (RF/EQ Board: Slot 1), TG1: GND (RF/EQ Board: Slot 1)
ADJ.	S2 and T2 Post height Service menu: **A09 RPL LIN HDLP**
MODE	PLAY
TAPE	VFM3781KML (LISTA)
LISTA	AJ-HD1500 [100M: 1800rpm]
TOOL	VFK1149B (Post Driver)
SPEC.	Linearity: less than 3um, Waving: less than 1.5um

1. Select “<3> AJ-HD1500” [100M: 1800rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
3. Open the SERVO ADJUST Menu and select the **A09: RPL LIN HDLP** menu.
4. Play Back the LISTA Alignment Tape.
5. Select the item “<2> Linearity Measurement” on the LISTA Main Menu, then Linearity Waveform appears.
6. When the waveform is displayed on the screen, press the “BS (Back Space)” key to cauterize the waveform. Adjust S2 and T2 post heights by using the post driver so that the linearity waveform becomes as flat as possible.
   (♦ Adjust linearity waveform between the red dot lines on the screen. Disregard the bending part at the exit side and the square at the entrance side.)
7. After the Linearity Adjustment, measure the numerical value of linearity and waving by pressing the space key.

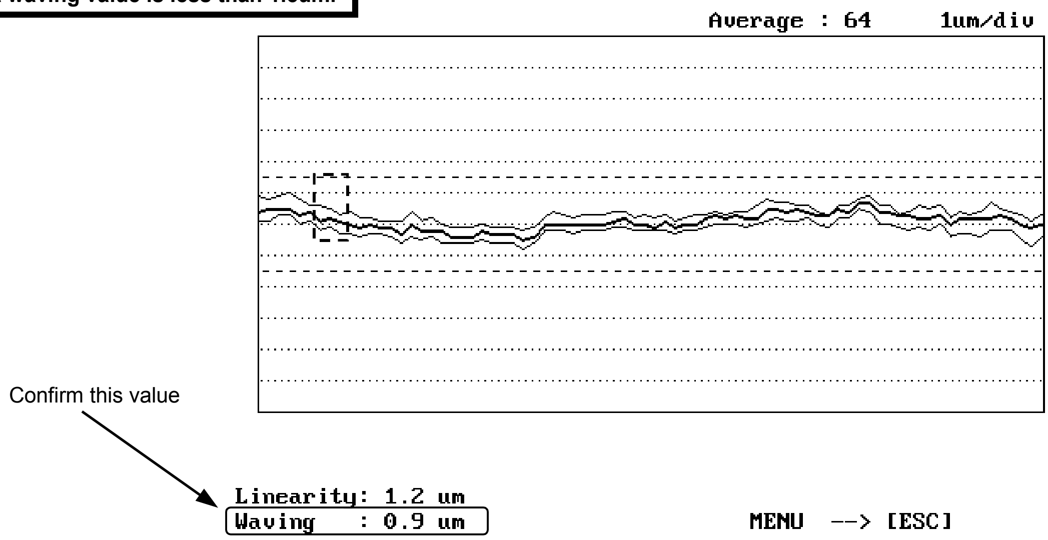


POINT:
The left side of waveform (entrance side) is adjusted by height of S2 post and the right side of waveform (exit side) is adjusted by height of T2 post.
Lower part of above waveform is displayed as the cylinder lead.
When the post driver is removed from a post, linearity waveform may change.
After finishing this adjustment, eject the tape and insert the tape again to confirm that the shape of linearity waveform does not change.

Waving Measurement Procedures

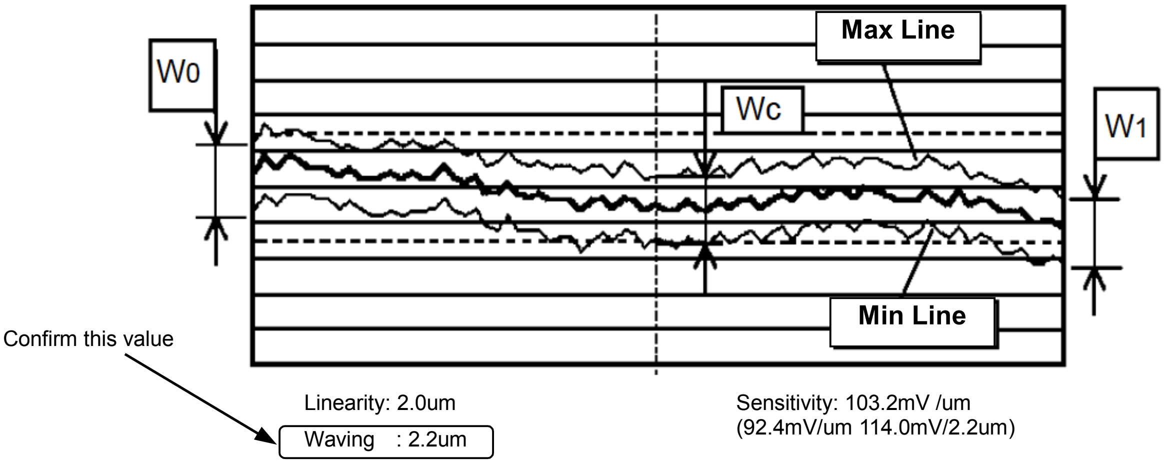
1. Press “SPACE” key to perform the Peak Hold in 30 seconds while linearity is displayed.
2. After sampling the Peak Hold, press “SHIFT” and “ } ” key simultaneously on the Key Board, then the numerical values of “Linearity” and “Waving” are displayed. Confirm that the numerical values are in the specification. Also confirm that the waving level is almost equal from the entrance to the exit side. If the “Linearity” or “Waving” is out of specification, adjust height of S2 or T2 post.
3. Press the ESC key to return to the main menu.

When a waving value is less than 1.5um.



```
Average : 64     1um/div
Linearity: 1.2 um
Waving   : 0.9 um            MENU  --> [ESC]
```

When a waving value is more than 1.5um.



Linearity: 2.0um
Waving : 2.2um

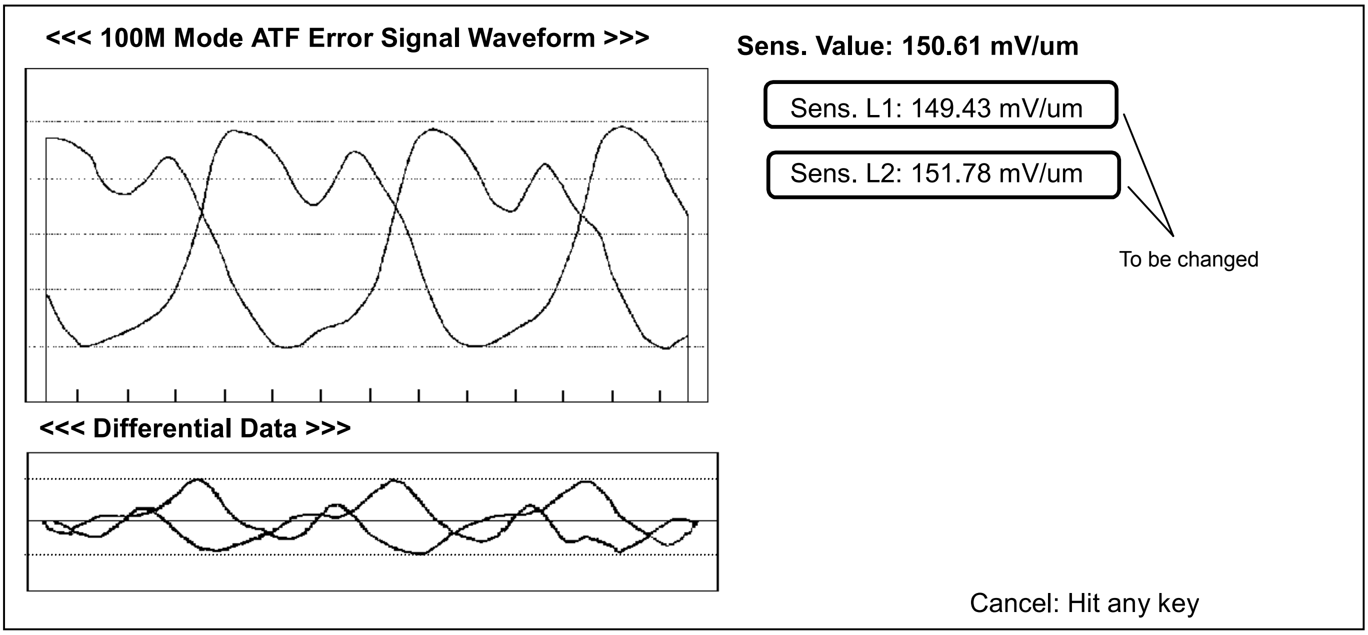
Sensitivity: 103.2mV /um
(92.4mV/um 114.0mV/2.2um)

1-32. LISTA Sensitivity Adjustment and Detection (HDSP)

TP	TP405 : ATF ERR RPL/TRL (RF/EQ Board: Slot 1) TP7 : R/P L HSW [HDSP/50] (RF/EQ Board: Slot 1) TG1 : GND (RF/EQ Board: Slot 1)
ADJ. (ATF GAIN)	Service menu: A10: RPL GAIN HDS
MODE	PLAY
LISTA	AJ-HD1500 [100M: 1800rpm]
TAPE	VFM3581KM or VFM3581KL [DVCPRO LISTA]
SPEC.	100 ± 10 mV/um

<Sensitivity Adjustment Procedure>

1. Select the AJ-HD1500 [100M: 1800rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
4. Open the SERVO ADJUST menu and select A10: RPL GAIN HDS menu.
5. Play back the LISTA Alignment Tape.
6. Select the item “<6> ATF Error Signal Monitor” on the LISTA main menu, and when message “1.2% Speed. . .” appears, press the Enter key.
7. Adjust EVR so that the “Sens. Value 1” on the upper right corner of the screen is within the specification.
8. After the adjustment, press the ESC key to return to the main menu.


<<< 100M Mode ATF Error Signal Waveform >>>
<<< Differential Data >>>

Sens. Value: 150.61 mV/um

Sens. L1: 149.43 mV/um

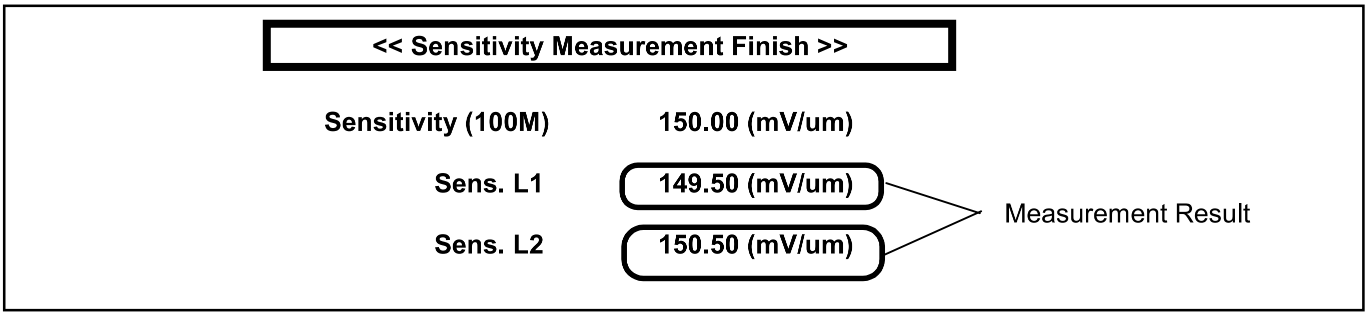
Sens. L2: 151.78 mV/um

To be changed

Cancel: Hit any key

<Sensitivity Detection Procedure>

1. Open the SERVO ADJUST menu.
2. Select A10: RPL GAIN HDS.
3. Play Back the LISTA Alignment Tape.
4. Select the item “<1> Sensitivity Measurement” on the LISTA main menu, and then “1.2% Speed. . .” appears on the screen. Press the Enter key, and then start measurement of the sensitivity value.
5. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and “Sensitivity = Sensitivity Value” are displayed on screen.
6. If it is out of specification, repeat the step item 3, 4 and 5.
7. If still out of specification, execute the “Sensitivity Adjustment” again.



<< Sensitivity Measurement Finish >>

Sensitivity (100M) **150.00 (mV/um)**

Sens. L1 **149.50 (mV/um)**

Sens. L2 **150.50 (mV/um)**

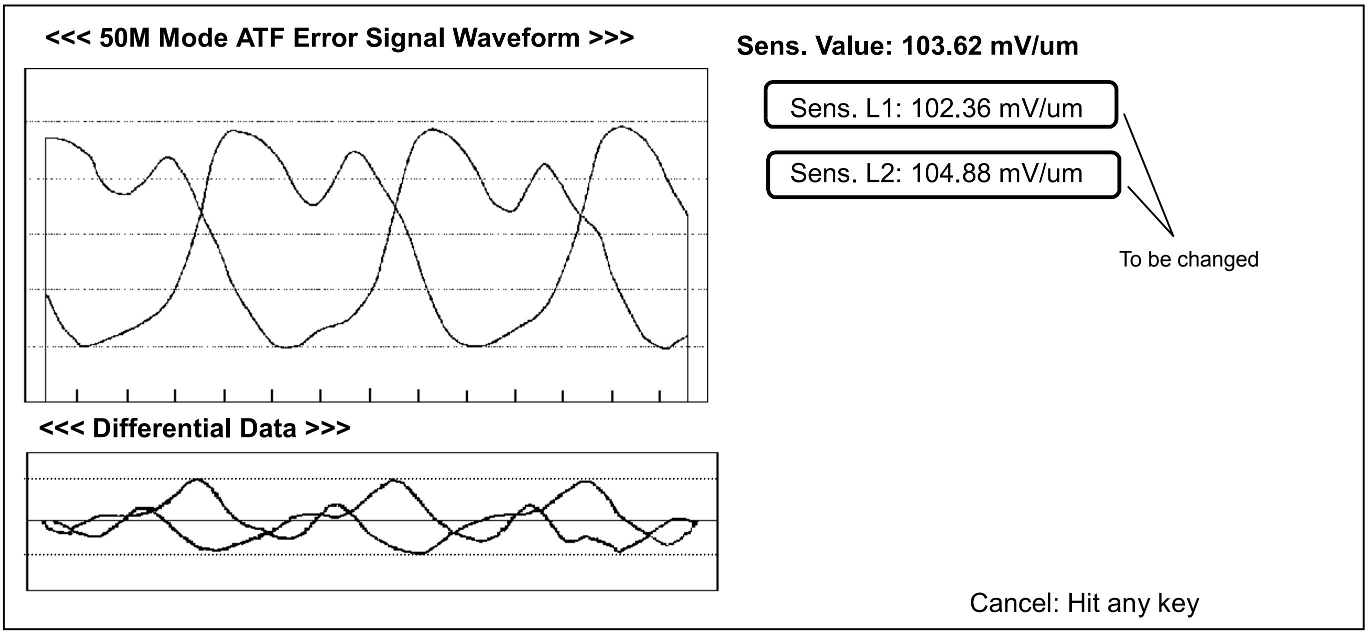
Measurement Result

1-33. LISTA Sensitivity Adjustment and Detection (SD)

TP	TP405 : ATF ERR RPL/TRL (RF/EQ Board: Slot 1) TP4 : TR L HSW (RF/EQ Board: Slot 1) TG1 : GND (RF/EQ Board: Slot 1)
ADJ. (ATF GAIN)	Service menu: **A11: RPL GAIN 50**
MODE	PLAY
LISTA	AJ-HD1500 [50M: 9000rpm]
TAPE	**VFM3581KM or** **VFM3581KL [DVCPRO LISTA]**
SPEC.	100 ± 10 mV/um

<Sensitivity Adjustment Procedure>

1. Select the “<1> AJ-HD1500” [50M: 9000rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
3. Open the SERVO ADJUST menu and select “A11: TRL GAIN 50”.
4. Play back the LISTA Alignment Tape.
5. Select the item “<6> ATF Error Signal Monitor” on the LISTA main menu, and when message “1.2% Speed….” appears, press the Enter key.
6. Adjust EVR so that the “Sens. Value 1” on the upper right corner of the screen is within the specification.
7. After the adjustment, press the ESC key to return to the main menu.



<<< 50M Mode ATF Error Signal Waveform >>>

Sens. Value: 103.62 mV/um

Sens. L1: 102.36 mV/um

Sens. L2: 104.88 mV/um

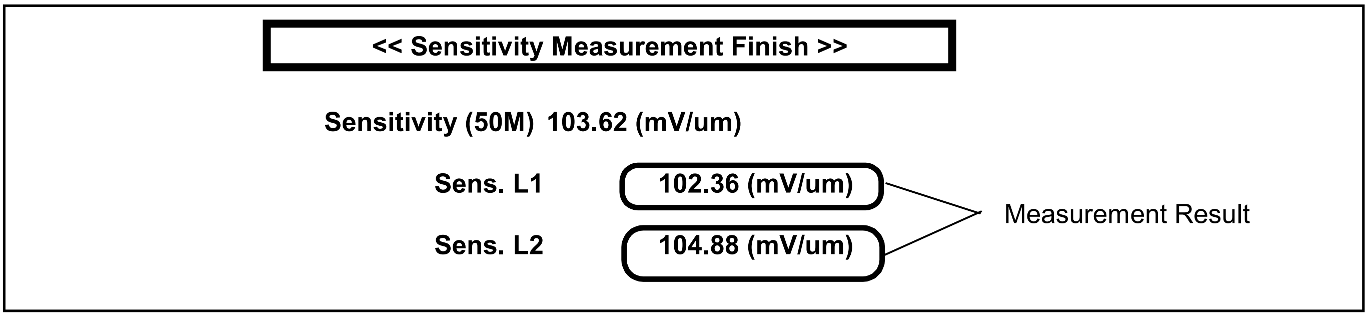
To be changed

<<< Differential Data >>>

Cancel: Hit any key

<Sensitivity Detection Procedure>

1. Open the SERVO ADJUST menu.
2. Select A11: RPL GAIN 50.
3. Play Back the LISTA Alignment Tape.
4. Select the item “<1> Sensitivity Measurement” on the LISTA main menu, and then “1.2% Speed. . .” appears on the screen. Press the Enter key, and then start measurement of the sensitivity value.
5. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and “Sensitivity = Sensitivity Value” are displayed on screen.
6. If it is out of specification, repeat the step item 3, 4 and 5.
7. If still out of specification, execute the “Sensitivity Adjustment” again.



<< Sensitivity Measurement Finish >>

Sensitivity (50M) 103.62 (mV/um)

Sens. L1 **102.36 (mV/um)**

Sens. L2 **104.88 (mV/um)**

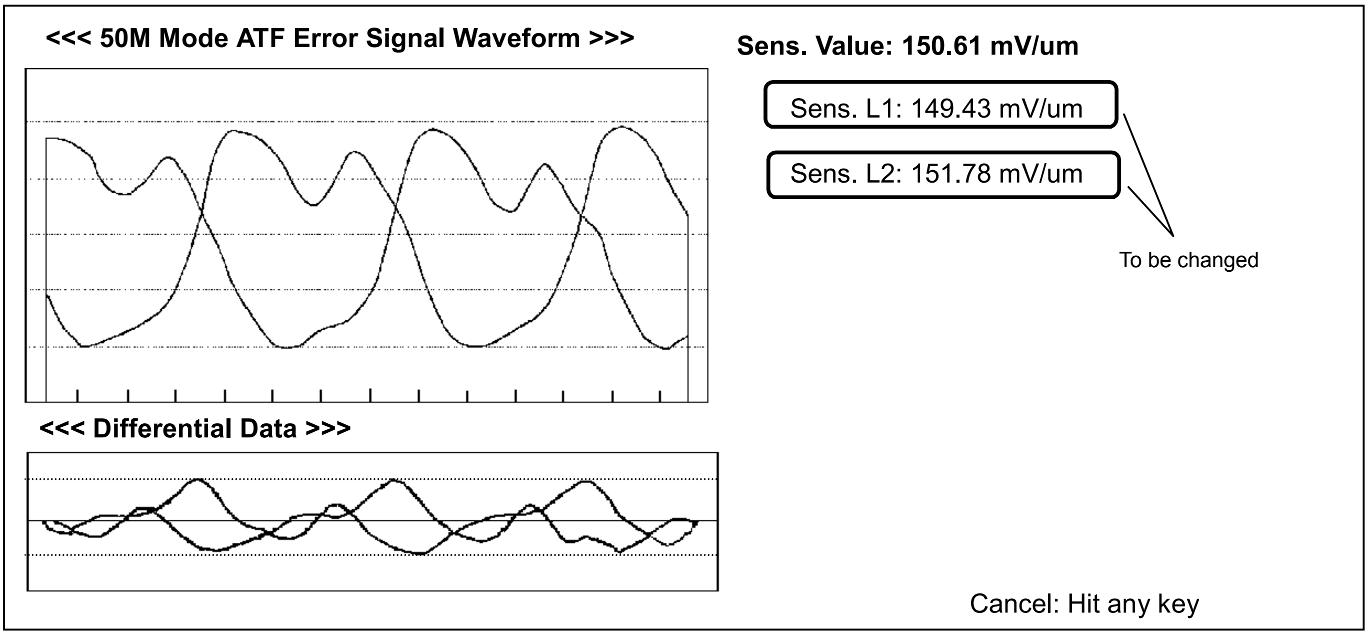
Measurement Result

1-34. LISTA Sensitivity Adjustment and Detection (DV)

TP	TP402 : ATF ERR PBR13 (RF/EQ Board: Slot 1) TP2 : R/P R HSW (DV) (RF/EQ Board: Slot 1)
ADJ. (ATF GAIN)	Service menu: **A12: RPR GAIN DV**
MODE	PLAY
LISTA	AJ-HD1500 [50M: 9000rpm]
TAPE	**VFM3000EDS (DV LISTA)**
SPEC.	150 ± 30 mV/um

<Sensitivity Adjustment Procedure>

1. Select the AJ-HD1500 [50M: 9000rpm] on the LISTA software.
2. Connect the LISTA cable to the Test Points.
3. Open the SERVO ADJUST menu and select A12: RPR GAIN DV menu
4. Play back the LISTA Alignment Tape.
5. Select the item "<6> ATF Error Signal Monitor" on the LISTA main menu, and when message "1.2% Speed. . ." appears, press the Enter key.
6. Adjust EVR so that the "Sens. Value 1" on the upper right corner of the screen is within the specification.
7. After the adjustment, press the ESC key to return to the main menu.


<<< 50M Mode ATF Error Signal Waveform >>>
<<< Differential Data >>>

Sens. Value: 150.61 mV/um

Sens. L1: 149.43 mV/um

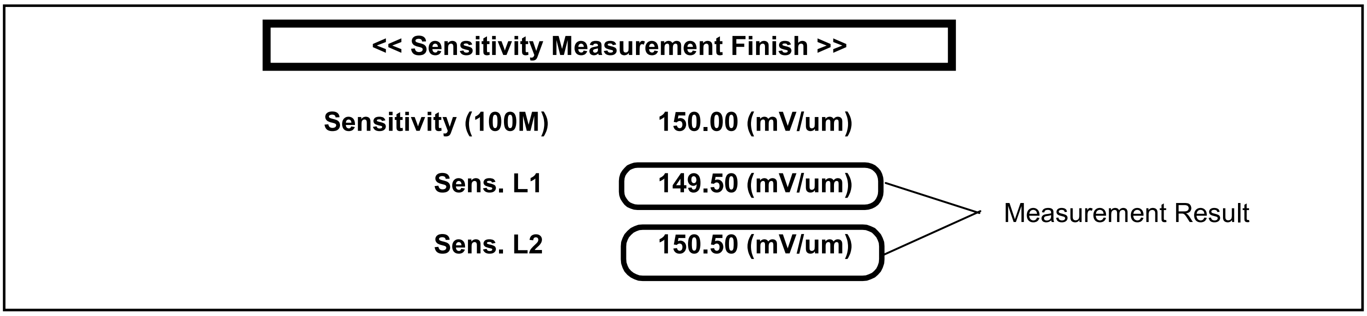
Sens. L2: 151.78 mV/um

To be changed

Cancel: Hit any key

<Sensitivity Detection Procedure>

1. Open the SERVO ADJUST menu.
2. Select A12: RPR GAIN DV.
3. Play Back the LISTA Alignment Tape.
4. Select the item "<1> Sensitivity Measurement" on the LISTA main menu, and then "1.2% Speed. . ." appears on the screen. Press the Enter key, and then start measurement of the sensitivity value.
5. Confirm the sensitivity value is within the specification, when the message <<Sensitivity Measurement Finish>> and "Sensitivity = Sensitivity Value" are displayed on screen.
6. If it is out of specification, repeat the step item 3, 4 and 5.
7. If still out of specification, execute the "Sensitivity Adjustment" again.



<< Sensitivity Measurement Finish >>

Sensitivity (100M) **150.00 (mV/um)**

Sens. L1 **149.50 (mV/um)**

Sens. L2 **150.50 (mV/um)**

Measurement Result

1-35. Self-REC/PLAY Envelope Waveform Confirmation

TP	TP105: R/P L-ENV (RF/EQ Board: slot1) TP5 : R/P L-HSW (RF/EQ Board: slot1) TP101 : PB L13-ENV (RF/EQ Board: slot1) TP102 : PB R13-ENV (RF/EQ Board: slot1) TP103: PB L24-ENV (RF/EQ Board: slot1) TP104 : PB R24-ENV (RF/EQ Board: slot1) TP105: PB TR L-ENV (RF/EQ Board: slot1) TP7: TR L-HSW (RF/EQ Board: slot1)
REC SIG	Internal CW Signal (Refer to the following procedure.)
M. EQ	Oscilloscope
TAPE	Blank M Cassette Tape (66 min.), Blank EX L Cassette Tape (126 min.)
SPEC.	Ordinary M Cassette (66 min.) or L Cassette (126 min): V1/Vmax, V3/Vmax ≥ 0.7, V2/Vmax ≥ 0.8 EX L Cassette: V1/V max, V2/V max, V3/Vmax 0.7

1. Turn off the VTR main power.
2. Temporally lift up the RF_EQ Board and set the jumper switches SW201 and SW202 to the CW Generate Mode (connecting Pin 1 and 2) as shown in figure 1-35-1.

Jumper Switch: SW201, SW202

1 2 3 : Normal Mode
○ ● ● (Jumper between pins 2 and 3)

1 2 3 : Internal CW Generate Mode
● ● ○ (Jumper between pins 1 and 2)

Figure 1-35-1

3. Reinstall the RF_EQ Board to the original slot and turn on the main power.
4. Record the internal CW signal for a few seconds.
5. Open the service menu and select "TRACKING MODE": CTL and play back the portion just recorded.
6. Adjust "TRACKING VAL" so that the envelope level becomes maximum.
7. Confirm that the envelope output is in the specification.

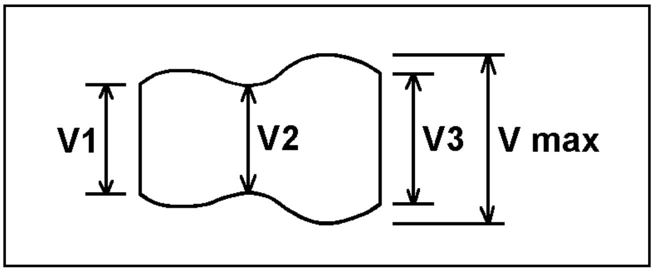


Fig. 1-35-2

8. Perform the same confirmation for each heads as shown the table below.

ENVELOPE	TP	ADJUST MENU	
R/P L-ENV	105	B-1: HDLP_PB	B17: TRACKING MOD = CTL B18: TRACKING VAL = Env. Max.
PB L13-ENV	101	B-2: HDSP	
PB R13-ENV	102		
PB L24-ENV	103		
PB R24-ENV	104		
PB TR L-ENV	105		

9 If it is out of specification, execute the items "ENV Waveform Adjustment" and "LISTA Adjustment".

2. Replacement and Adjustment Procedures of Major Parts

GENERAL

When mechanical parts are replaced, pay attention to the following notes.

1. Always turn power off before replacing any parts.
2. If any adjustment is required after replacing parts, perform the required adjustment.
3. Use proper tools and fixtures.
4. Be sure to clean the parts after replacement, and also to replace the mechanical parts, following the replacement procedure.

Refer to the Section 1 of Service Information regarding to the each parts maintenance schedule.

2-1. Replacement of Cylinder Unit

(Removal)

1. Disconnect the upper flexible cable which connected to the connector P2 on the RF/CUE Board.
2. Open the Power 3 Board and Servo Board under the Mechanical Cassis.
3. Disconnect the lower flexible cables which connected to the connector P3 and P4 on the RF/CUE Board, and P33 on the MECHA I/F Board.
4. Unscrew the 3 screws (A) (with spring) which fix the Cylinder Unit as shown in Figure 2-1-1, then remove the Cylinder Unit without touching any mechanical parts.

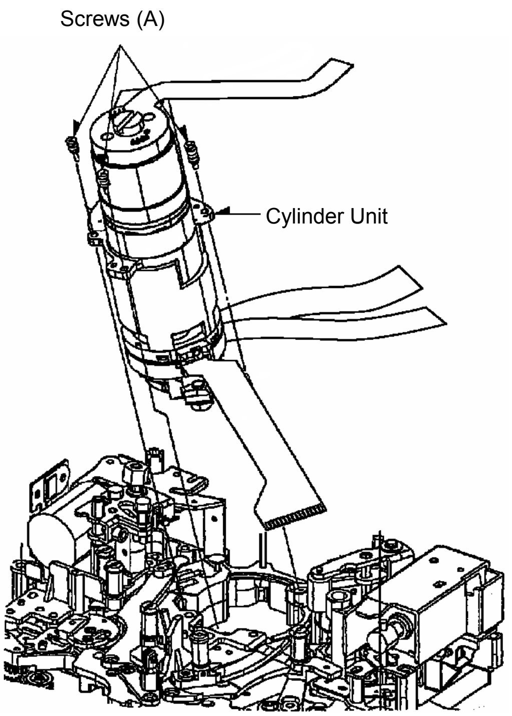


Fig. 2-1-1

(Installation)

1. Install the Cylinder Unit in the reverse steps of the removal

Note :

Don’t touch the cylinder unit with fingers directly, when installing the new cylinder they will oil film on head.
When installing the Cylinder Unit, the pin on Mecha. Chassis should mach with holes of cylinder unit.

2-2. Replacement of Cleaning Arm Unit

(Removal)

1. Remove the Cut Washer (A) as shown in Fig. 2-2-1 and unhook spring from Cleaning Arm Unit and then, remove the Cleaning Arm Unit.

Note :
Do not touch the Cleaning Roller by finger directly.

(Installation)

1. Install the Cleaning Arm Unit to the pin on the Mechanical Chassis Unit and the cut washer (A) then hook the spring to the Cleaning Arm Unit.
2. After installation, the position adjustment of the Cleaner Solenoid is required.

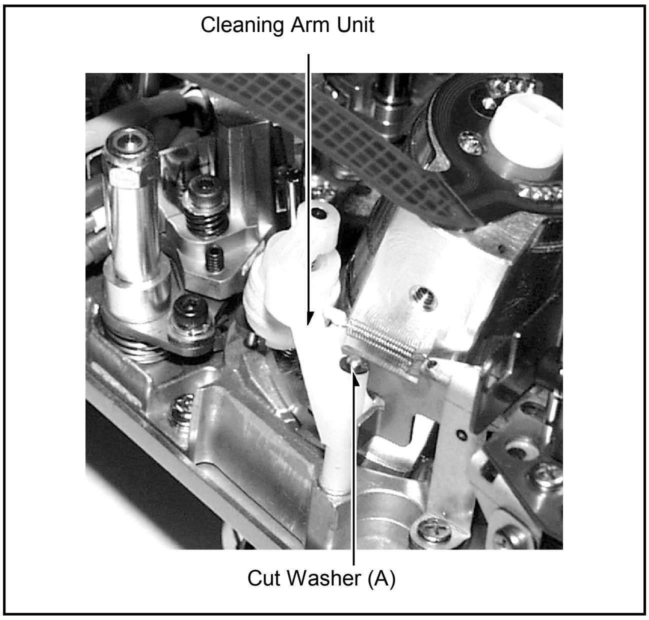

Cleaning Arm Unit
Cut Washer (A)

Fig. 2-2-1

(Position Adjustment of Cleaner Solenoid)

1. Press the core of Cleaner Solenoid.
2. Confirm that the gap (C) between the Cleaner Connection Rod and Cleaner Arm Unit is 0.95mm and the gap (D) is 0.7±0.1mm as shown in Fig. 2-2-2.
3. If the out of specification, loosen the 2 screws (B) as shown in Fig. 2-2-2.
4. Move the Cleaner Solenoid to an arrow direction so that the gap (C) and (D) are within the specification.
5. Press the core of Cleaner Solenoid by hand.
6. Confirm that the Cleaner Roller touches with the Cylinder and returns to the original position when release the hand from it.

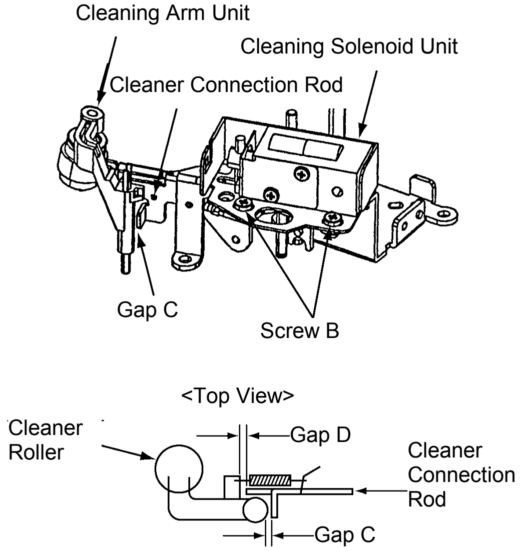
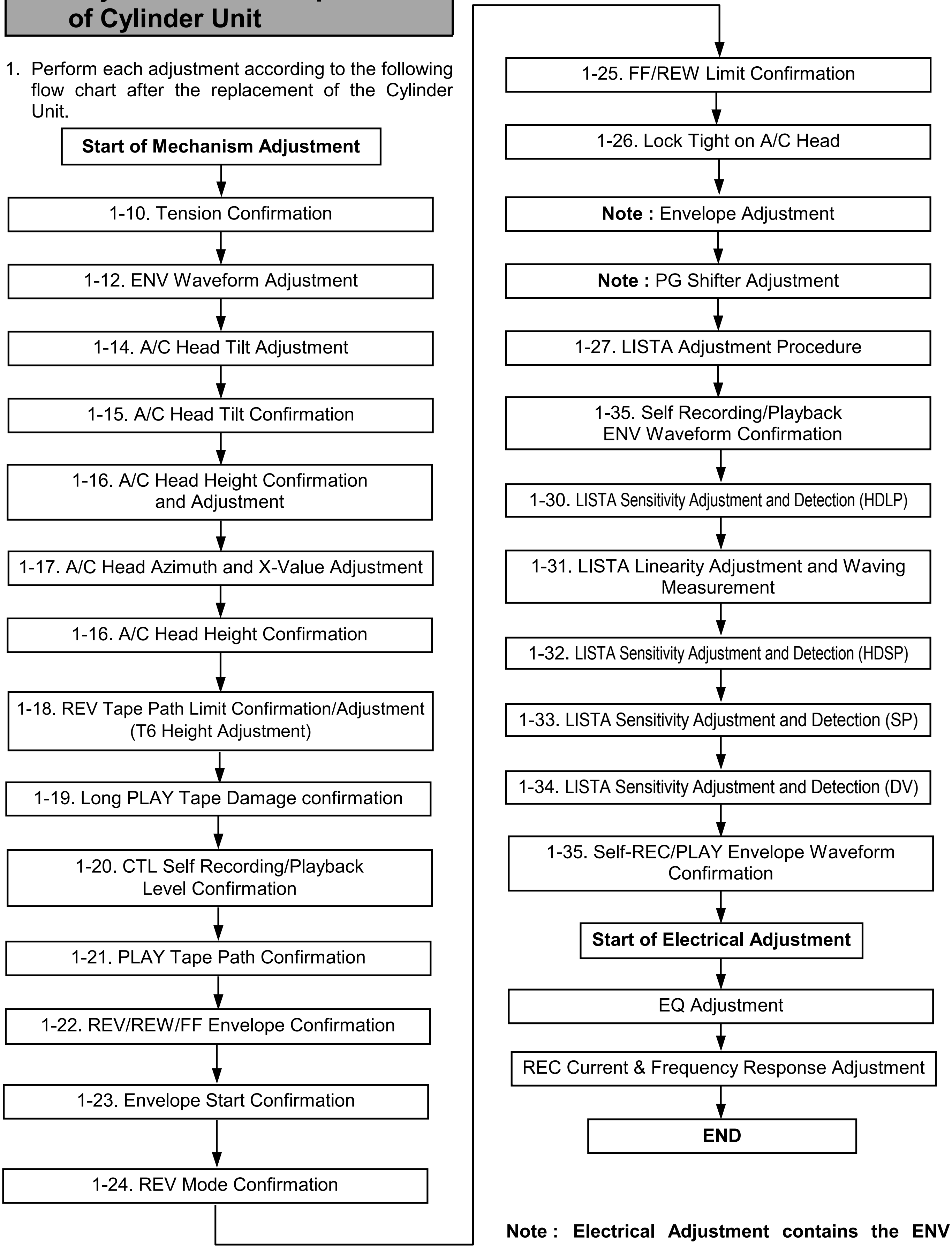

Cleaning Arm Unit
Cleaning Solenoid Unit
Cleaner Connection Rod
Gap C
Screw B
<Top View>
Cleaner Roller
Gap D
Cleaner Connection Rod
Gap C

Fig. 2-2-2

2-3. Adjustment after Replacement of Cylinder Unit

1. Perform each adjustment according to the following flow chart after the replacement of the Cylinder Unit.


Start of Mechanism Adjustment
1-10. Tension Confirmation
1-12. ENV Waveform Adjustment
1-14. A/C Head Tilt Adjustment
1-15. A/C Head Tilt Confirmation
1-16. A/C Head Height Confirmation and Adjustment
1-17. A/C Head Azimuth and X-Value Adjustment
1-16. A/C Head Height Confirmation
1-18. REV Tape Path Limit Confirmation/Adjustment (T6 Height Adjustment)
1-19. Long PLAY Tape Damage confirmation
1-20. CTL Self Recording/Playback Level Confirmation
1-21. PLAY Tape Path Confirmation
1-22. REV/REW/FF Envelope Confirmation
1-23. Envelope Start Confirmation
1-24. REV Mode Confirmation
1-25. FF/REW Limit Confirmation
1-26. Lock Tight on A/C Head
Note : Envelope Adjustment
Note : PG Shifter Adjustment
1-27. LISTA Adjustment Procedure
1-35. Self Recording/Playback ENV Waveform Confirmation
1-30. LISTA Sensitivity Adjustment and Detection (HDLP)
1-31. LISTA Linearity Adjustment and Waving Measurement
1-32. LISTA Sensitivity Adjustment and Detection (HDSP)
1-33. LISTA Sensitivity Adjustment and Detection (SP)
1-34. LISTA Sensitivity Adjustment and Detection (DV)
1-35. Self-REC/PLAY Envelope Waveform Confirmation
Start of Electrical Adjustment
EQ Adjustment
REC Current & Frequency Response Adjustment
END

Note : Electrical Adjustment contains the ENV Level Adjustment and PG Shifter Adjustment.

2-4. Pinch Solenoid Replacement

(Removal)

1. Disconnect the connector P20 on the Mech. I/F P.C.Board.
2. Unscrew the 2 screws (A) and remove the Pinch Solenoid cover and Pinch Solenoid Angle as shown in Figure 2-4-1.
3. Unscrew the 2 screws (B) and remove the Pinch Solenoid with the Solenoid Base as shown in Figure 2-4-1.
4. Unscrew the 2 screws(C) and remove the Pinch Solenoid as shown In Figure 2-4-1.

(Installation)

1. Install the Pinch Solenoid in the reverse steps of the removal.
   After installation, adjust the Pinch Solenoid Position Adjustment.

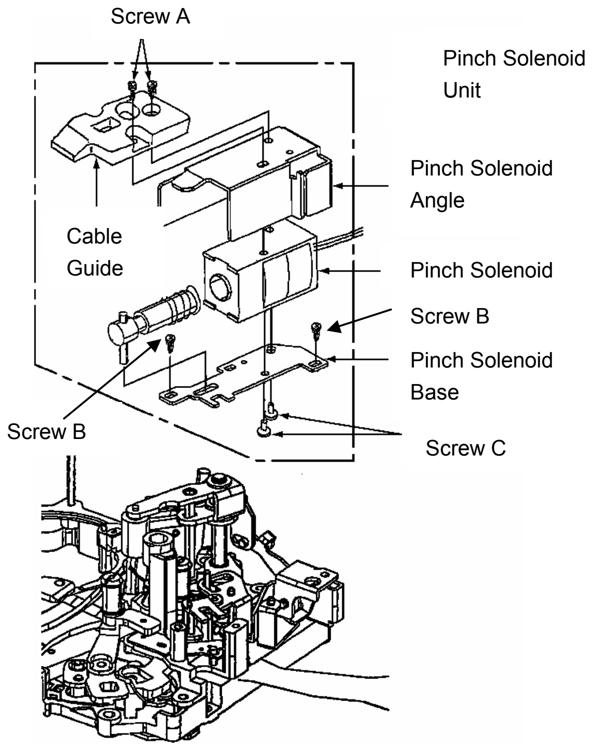

Screw A
Pinch Solenoid Unit
Pinch Solenoid Angle
Cable Guide
Pinch Solenoid
Screw B
Pinch Solenoid Base
Screw B
Screw C

Fig.2-4-1

2-5. Pinch Solenoid Position Adj.

ADJ.	Screws(C),(D) and Hole (B)
TP	Clearance T
MODE	EJECT (Power Off)
TOOL	VFK0357 (Eccentric Driver)
SPEC	T=0.3mm to 0.5mm

1. Confirm that the Pinch Solenoid Cover and Pinch Solenoid Angle are removed .
2. Turn the Emergency Screw clockwise, and place the VTR in loading condition
3. Press the core of Pinch Solenoid so that the Pinch Roller touches with the Capstan.
4. Loosen the 2 screws(C),(D) and Adjust hole(B) by VFK0375 so that the clearance(T) is within specification.
5. After position adjustment, fix the solenoid position with screw(C),(D)

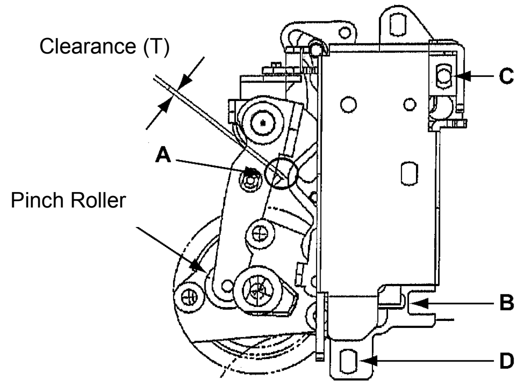

Clearance (T)
A
Pinch Roller
C
B
D

Fig.2-5-1

2-6. Replacement of Capstan Unit

(Removal)

1. Disconnect the connector on the MECHA I/F Board. (rear side of the Mechanical Chassis)
2. Unscrew the 3 screws (A) as shown in Fig. 2-6-1 and then remove the Capstan Unit from the lower side of Mechanical Chassis.

(Installation)

1. Install the new Capstan Unit in reverse steps of the removal..

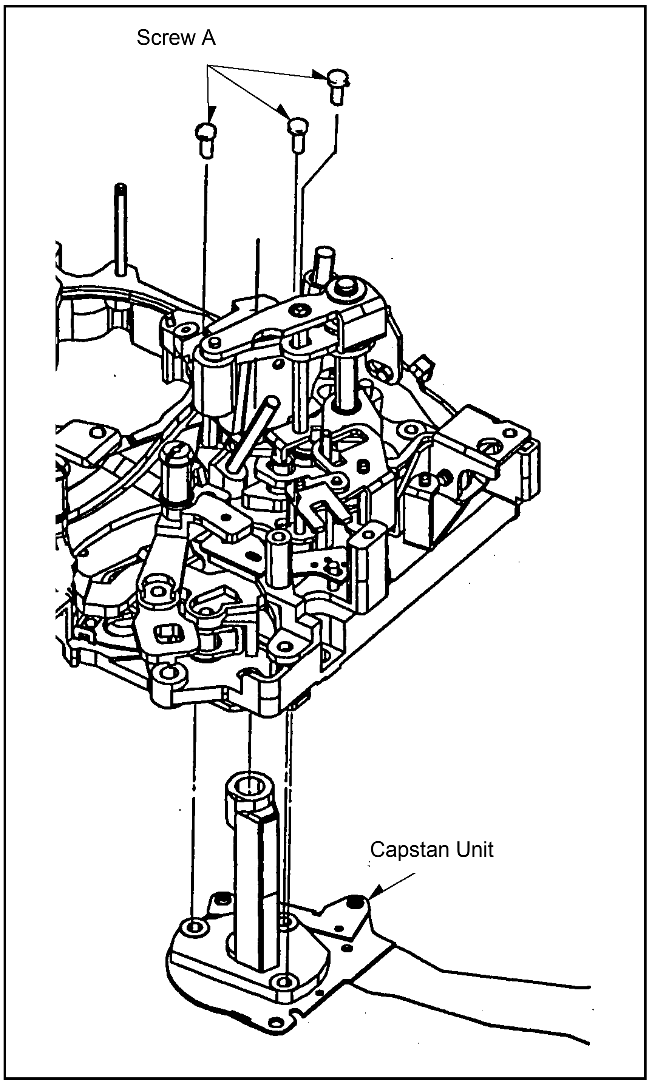


Fig. 2-6-1

2-7. Replacement and Adjustment of A/C Head Unit

(Removal)

1. Unscrew the spring screw(A) as shown in Fig.s 2-7-1 and 2-7-2 and then remove the A/C Head 1 Unit.

(Installation)

1. Install the A/C Head 1 Unit in reverse steps of the removal. Tighten the screw (A) with 10cN·m (1Kgf·m) torque.
2. Clean the surface of A/C Head.

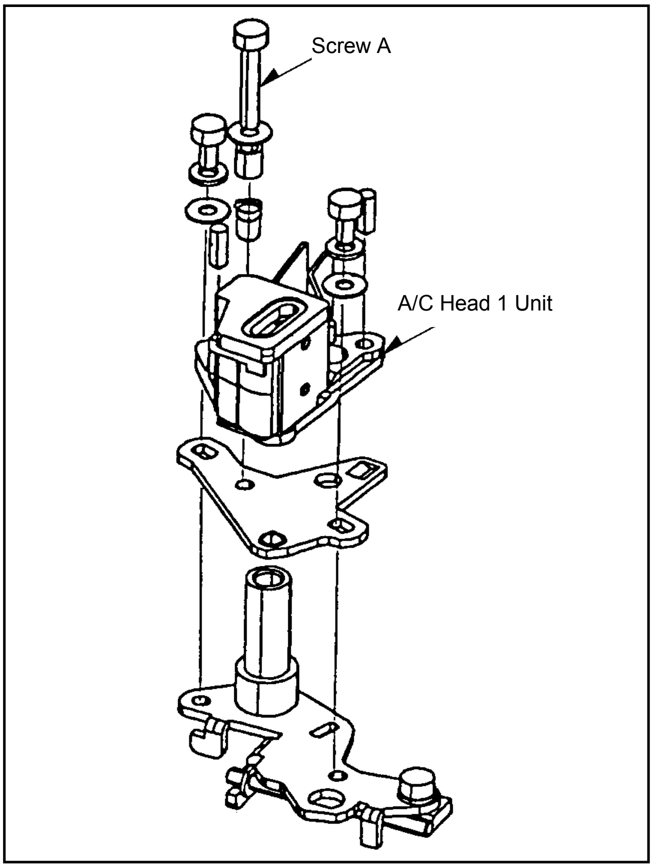


Fig. 2-7-1

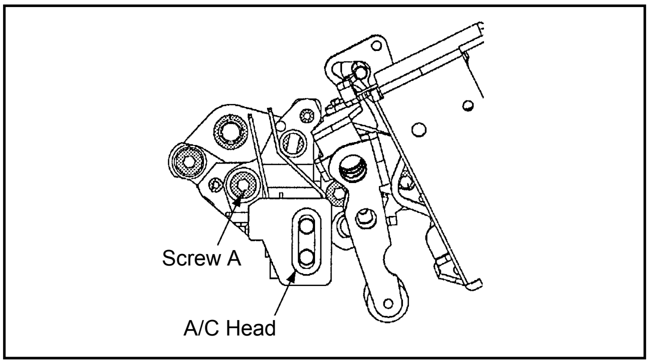
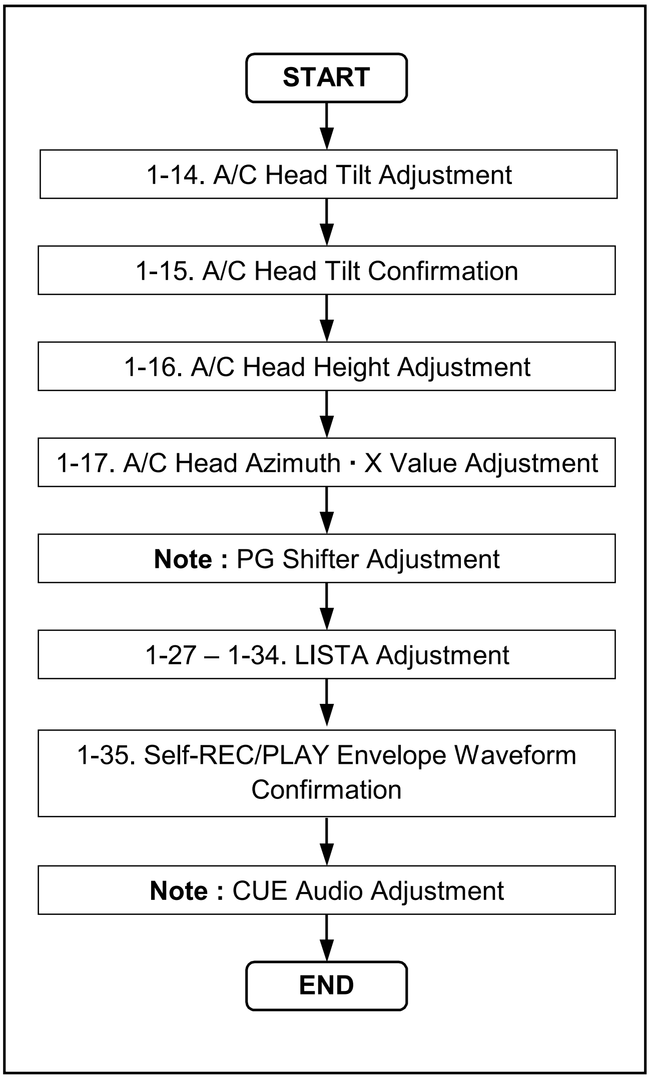


Fig. 2-7-2

< A/C Head Adjustment >

1. Necessary adjustments and confirmation items after replacement of A/C Head Unit is shown in the below flow chart.


START
1-14. A/C Head Tilt Adjustment
1-15. A/C Head Tilt Confirmation
1-16. A/C Head Height Adjustment
1-17. A/C Head Azimuth · X Value Adjustment
Note : PG Shifter Adjustment
1-27 – 1-34. LISTA Adjustment
1-35. Self-REC/PLAY Envelope Waveform Confirmation
Note : CUE Audio Adjustment
END

Note : The PG Shifter and CUE Audio Adjustment Procedures have been introduced in the "Electrical Adjustment Procedures Section".

2-8. Replacement and Adjustment of Cleaner Solenoid Unit

(Removal)

1. Disconnect the connector P414 on the MECHA I/F Board. (Rear side of the Mechanical Chassis)
2. Unscrew the 2 screws (A) as shown in Fig. 2-8-1 and remove the Cleaner Solenoid Unit.
3. Unscrew the 2 screws (B) as shown in Fig. 2-8-1 and 2-8-2 and remove the Cleaner Shield Case.
4. Unscrew the 2 screws (C) as shown in Fig. 2-8-2 and remove the Silencer Spring from the Cleaner Solenoid Unit.

(Installation)

1. Install the new Cleaner Solenoid Unit in the reverse steps of the removal.
2. Perform the Position Adjustment of the Cleaner Solenoid at the installation. (Refer to the paragraph 2-2. "Replacement of Cleaning Arm Unit")

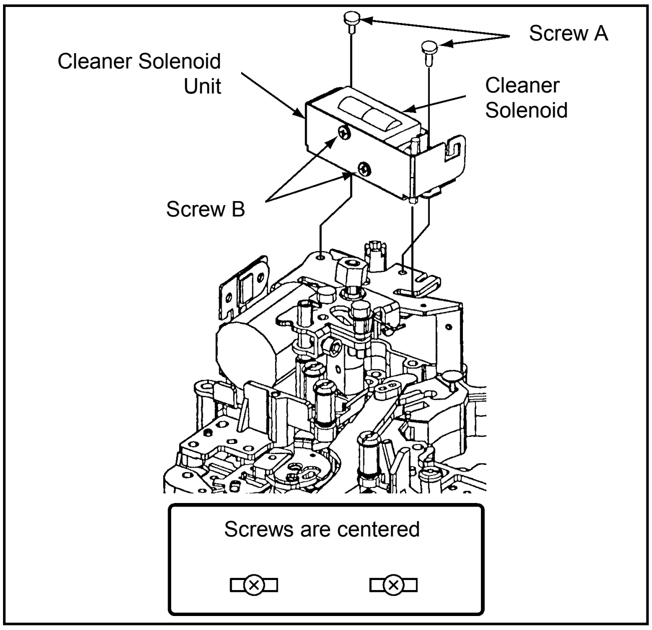

Screw A
Cleaner Solenoid Unit
Cleaner Solenoid
Screw B
Screws are centered

Fig. 2-8-1

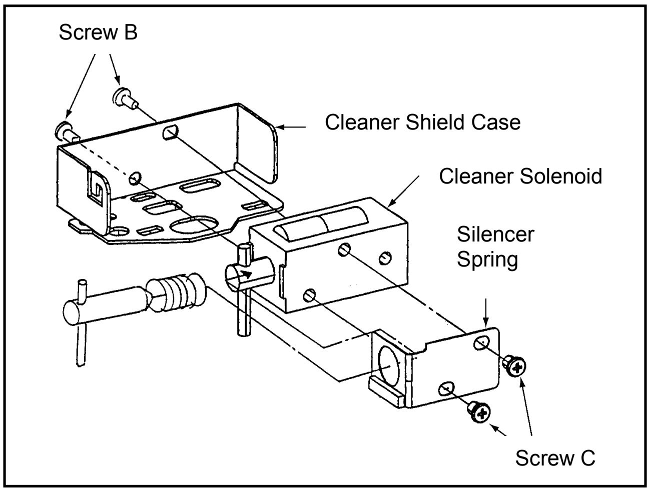

Screw B
Cleaner Shield Case
Cleaner Solenoid
Silencer Spring
Screw C

Fig. 2-8-2

2-9. Mode SW Unit Replacement

(Removal)

1. Confirm that the unit is in the unloading complete position.
2. Remove the cleaner solenoid unit. (Refer to 2-8)
3. Disconnect the connectors on the Mech. I/F board.
4. Remove the spring on the cleaner arm unit.
5. Unscrew 3 screws A, and the Motor Bracket Unit. (Fig.2-9-1)
6. Unscrew the 2 screws B, and the Mode SW Unit.

(Installation)

1. Install a new Mode SW Unit in the reverse steps of the removal.
2. The pin at the bottom of the Mode SW should be put into the hole of the Main Cam Gear. (Fig.2-9-1 and 2-9-2)

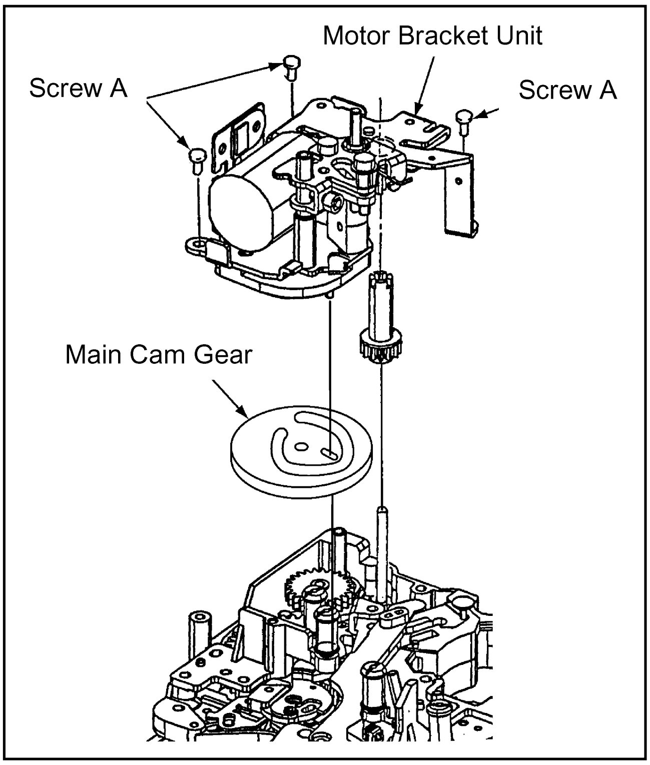

Motor Bracket Unit
Screw A
Screw A
Main Cam Gear

Fig.2-9-1

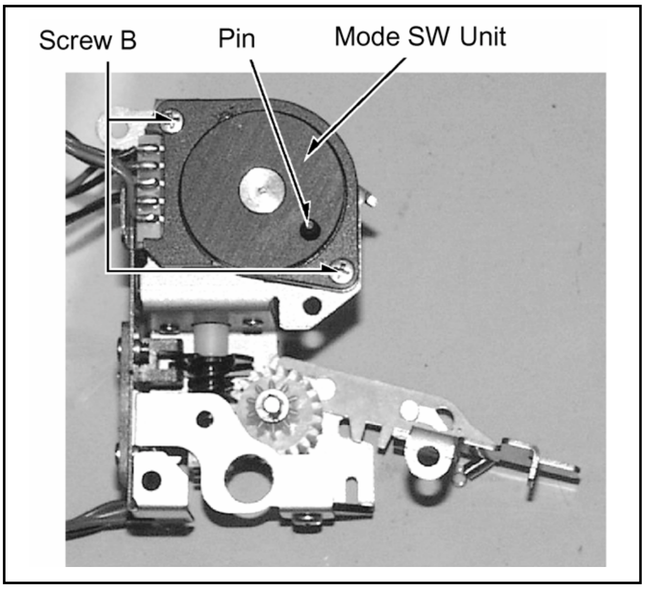

Screw B
Pin
Mode SW Unit

Fig.2-9-2

2-10. Main Cam Gear Replacement

(Removal)

1. Remove the Cleaner Solenoid. (Refer to 2-8)
2. Remove the Motor Bracket Unit. (Refer to 2-9)
3. Turn the Cam Relay Gear B counterclockwise to place the mech. in the loading complete mode. (Fig.2-10-1)
4. Remove the Loading Guide. (Refer to 2-13)
5. Remove the S Loading Arm Unit. (Refer to 2-13)
6. Remove the S4 Post Base Unit. (Refer to 2-11)
7. Remove the Cut Washer A and the Cam Relay Gear B. (Fig.2-10-1)
8. Remove the Cut Washer B and the Cam Relay Gear A.
9. Remove the Cut Washer C and the S Load Sector Gear Unit.
10. Remove the Cut Washer D and the S Relay Gear.
11. Remove the Cut Washer E and the Main Cam Gear.

(Installation)

1. Install a new Main Cam Gear in the reverse steps of the removal.
2. Make sure that the pin of the Mode SW and the hole of the Main Cam Gear are geared upon mounting the Motor Bracket.

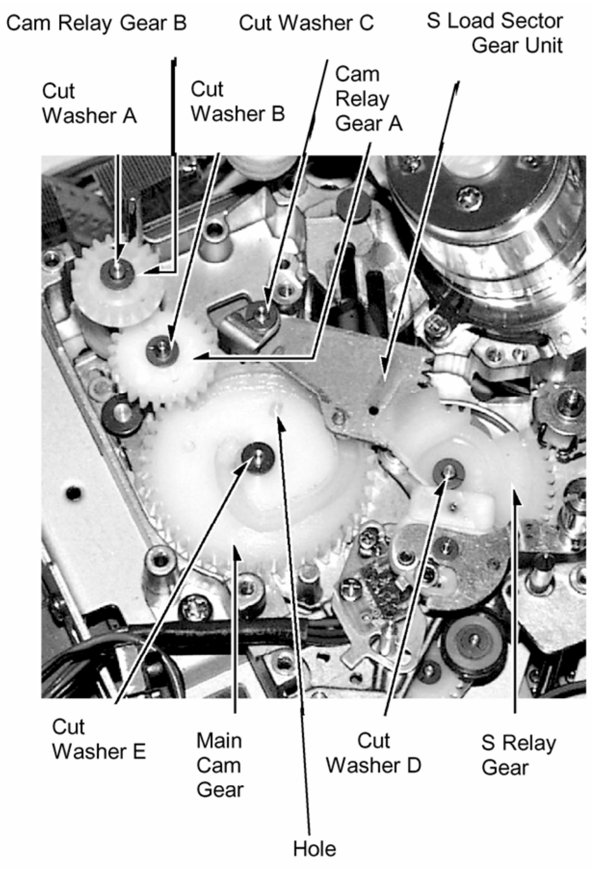

Cam Relay Gear B
Cut Washer C
S Load Sector Gear Unit
Cut Washer A
Cut Washer B
Cam Relay Gear A
Cut Washer E
Main Cam Gear
Cut Washer D
S Relay Gear
Hole

Fig.2-10-1

2-11. S4 Post Base Unit Replacement

(Removal)

1. Remove the 2 screws A and the S4 Post Base Unit. (Fig.2-11-1)

(Installation)

1. Install a new S4 Post Base Unit in the reverse steps of the removal.
2. The post height pre-adjustment and Linearity adjustment are required.

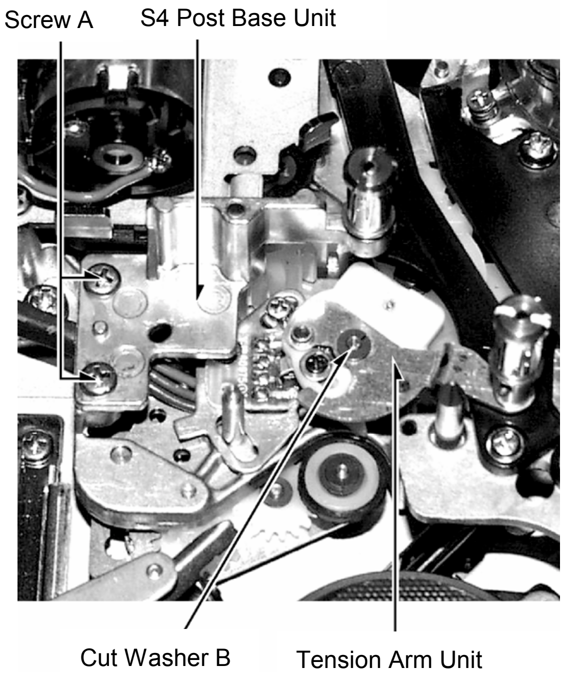

Screw A
S4 Post Base Unit
Cut Washer B
Tension Arm Unit

Fig.2-11-1

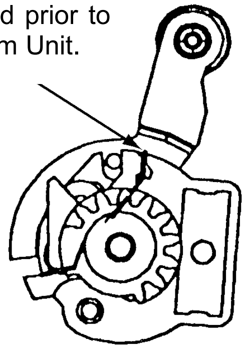
2-12. Tension Arm Unit Replacement

(Removal)

1. Remove the S4 Post Base Unit.
2. Remove the cut washer B and the tension spring. (Fig.2-11-1)
3. Remove the Tension Arm Unit.

(Installation)

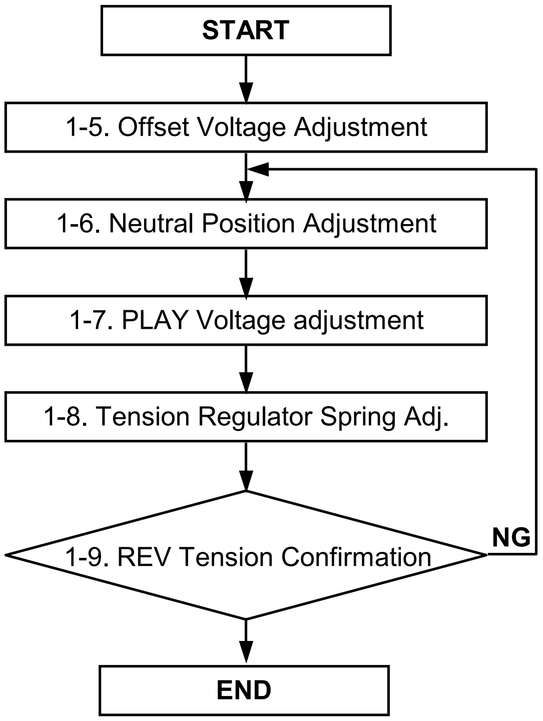
1. Install a new Tension Arm Unit in the reverse steps of the removal. The spring must be fixed prior to installing the Tension Arm Unit.
2. The Tension Arm Adjustment is required. (See the flowchart below.)



The spring must be fixed prior to installing the Tension Arm Unit.

Fig.2-12-1

<Tension Arm Adjustment Flowchart>


START
1-5. Offset Voltage Adjustment
1-6. Neutral Position Adjustment
1-7. PLAY Voltage adjustment
1-8. Tension Regulator Spring Adj.
1-9. REV Tension Confirmation
NG
END

2-13. S Loading Unit Replacement

(Removal)

1. Remove the Cleaner Solenoid unit. (Refer to 2-8)
2. Remove the Motor Bracket Unit. (Refer to 2-9)
3. Turn the Cam Relay Gear (B) counterclockwise to place the unit in the loading complete condition. (Fig.2-13-1)
4. Unscrew the 4 screws A and 2 screws B, then the loading guide. (Fig.2-13-1)
5. Turn the Cam Relay Gear (B) clockwise to return the unit in the unloading complete condition.
6. Remove the Cut Washer C and a washer, and then the S Loading Unit. (Fig.2-13-2)

(Installation)

1. Install a new S Loading Unit in the reverse steps of the removal.
2. The hole D of the S Loading Unit and the hole E of the S Sector Gear should be geared each other.

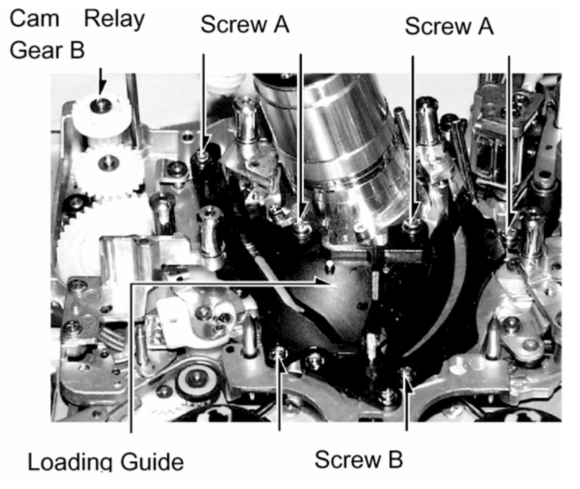

Cam Relay Gear B
Screw A
Screw A
Loading Guide
Screw B

Fig.2-13-1

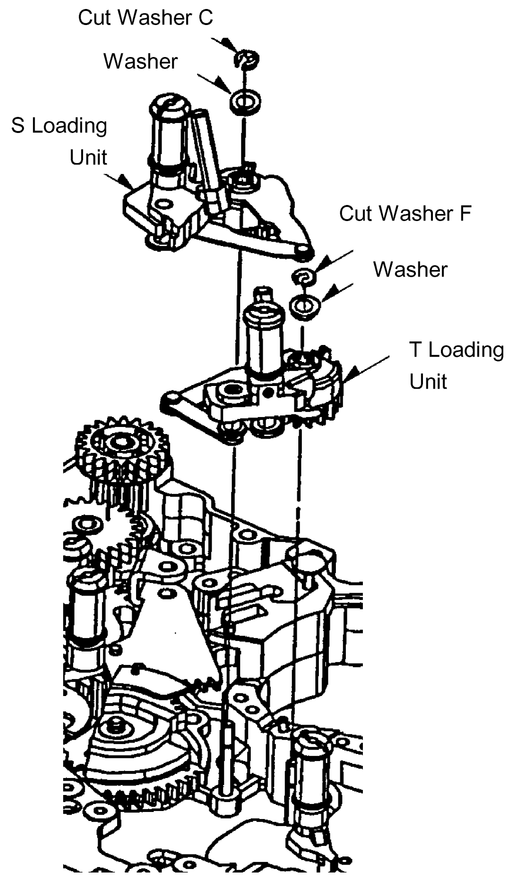

Cut Washer C
Washer
S Loading Unit
Cut Washer F
Washer
T Loading Unit

Fig.2-13-2

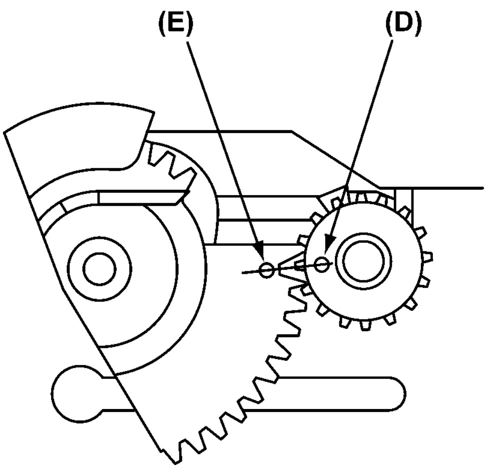


Fig.2-13-3

2-14. T Loading Unit Replacement

(Removal)

1. Remove the S Loading Arm Unit. (Refer to 2-13)
2. Remove the Cut Washer F and a Washer to remove the T Loading Unit. (Fig.2-13-2)

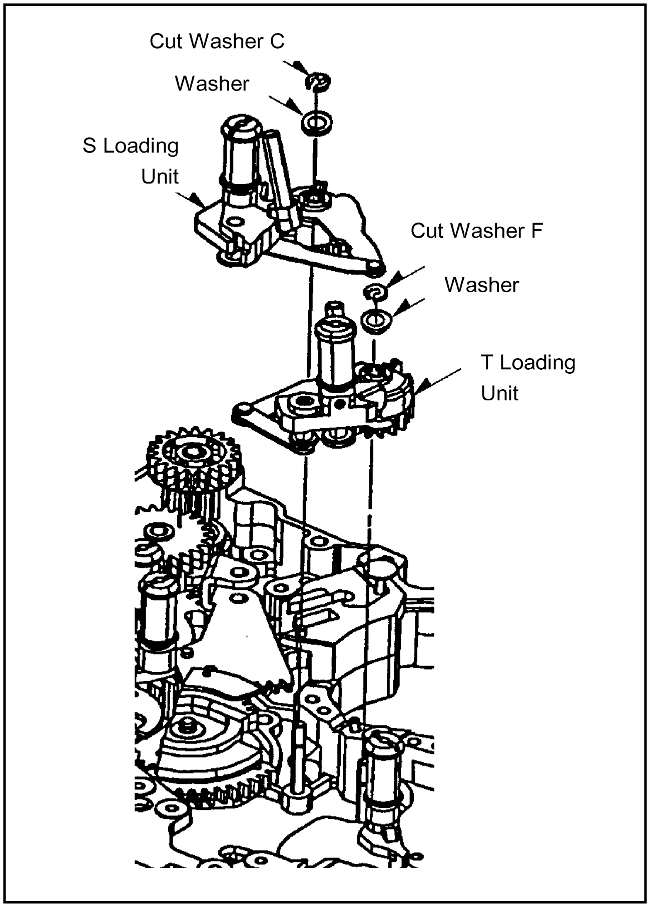

Cut Washer C
Washer
S Loading Unit
Cut Washer F
Washer
T Loading Unit

Fig. 2-14-1

(Installation)

1. Install a new T Loading Unit in the reverse steps of the removal.
2. The hole (G) and (H) should be geared. (Fig.2-14-2)

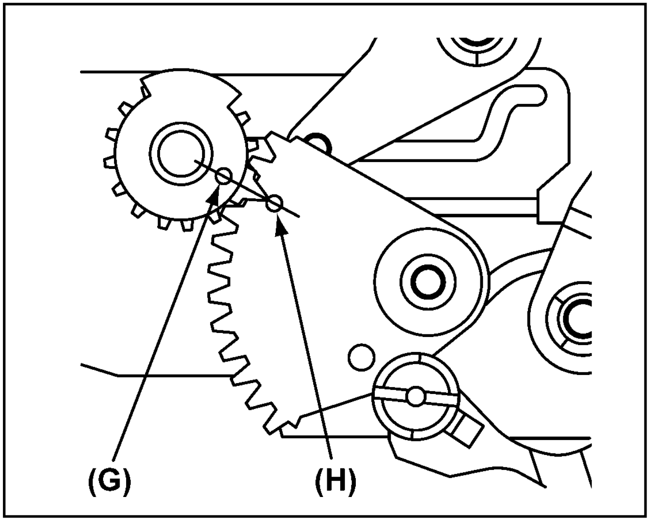


Fig.2-14-2

2-15. T6 Arm Unit Replacement

(Removal)

1. Remove the Cut Washer A and a Washer to remove the T6 Arm Unit. (Fig.2-15-1)

(Installation)

1. Install a new T6 Arm Unit in the reverse steps of the removal.
2. The Post Height Pre-adjustment and the Linearity Adjustment are required.

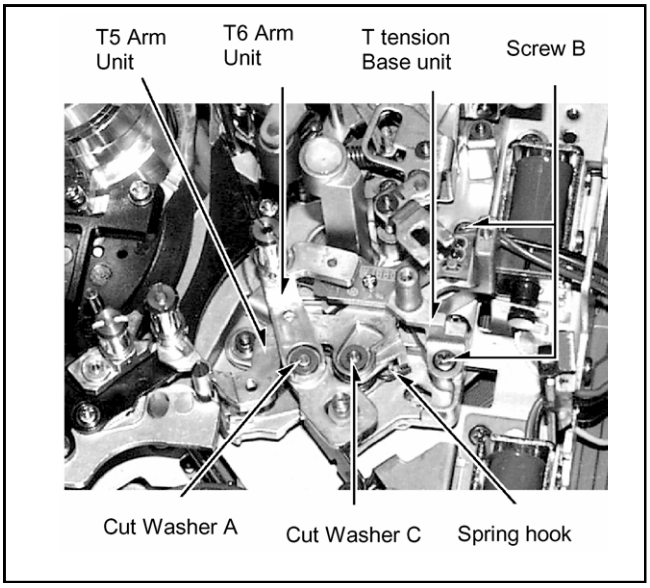

T5 Arm Unit
T6 Arm Unit
T tension Base unit
Screw B
Cut Washer A
Cut Washer C
Spring hook

Fig.2-15-1

2-16. T5 Arm Unit Replacement

(Removal)

1. Remove the T6 Arm Unit. (Refer to 2-15)
2. Remove the Pinch Solenoid Unit. (Refer to 2-4)
3. Unscrew the 2 screws B, and the T Tension Base Unit. (Fig.2-15-1)
4. Remove the Cut Washer C and a Washer to remove the T5 Arm Unit. (Fig.2-15-1)

(Installation)

1. Install a new T5 Arm Unit in the reverse steps of the removal. Make sure the position where the spring hooks.
2. The Post Height Pre-adjustment and the Linearity Adjustment are required.

2-17. Supply & Take-up Reel Rotor Replacement

(Removal)

1. Disconnect the flexible cable which is connected to P34 and P35 on the Mech. I/F Board (back side of the Mechanism unit).
2. Confirm that the iron core of the Supply and Take-up Brake Solenoid are not pressed.
3. Confirm that the Reel Table is positioned M-Cassette, release the M Stopper by pressing the iron core of the M Stopper Solenoid.
4. Unscrew the 2 screws (A) on the outer rail. When unscrew, insert the driver to the Hole (C) as shown in figure 2-17-1.
5. Unscrew the 2 screws (B) as shown in figure 2-17-1.
6. The Rotor Unit is hooked at inner rail. Remove the Supply and Take-up Rotor Unit that never touch to the Brake Release Arm.

NOTE: When remove the Reel Rotor Unit, memorized the groove position of Reel Base, which inserted the pin of Drive Arm Unit.

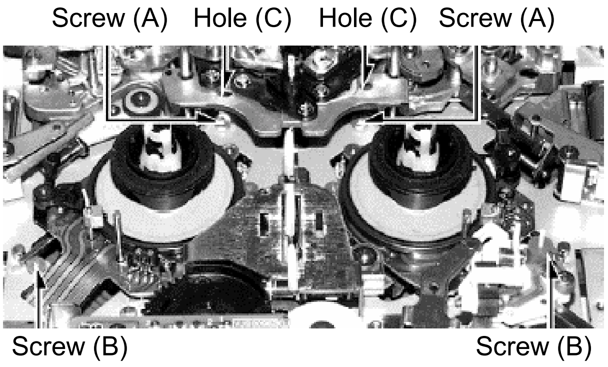


Fig.2-17-1

(Installation)

1. Install the new Supply and Take-up Reel Rotor Unit to the outer rail.
2. Hang on the Reel Rotor Unit to inner rail and install the Reel Rotor Unit then the pin of Drive Arm Unit should be matched with groove position of Reel Base as shown in Figure 2-17-2.
3. Fix the outer rail by Screw (A) and Screw (B).
4. Confirm that the Reel Table Unit moving smoothly on the Rail by hand.
5. Move the Reel Rotor Unit to front side by hand and then pull up the iron core of M stopper solenoid.
6. Confirm the Main Brake Torque. (Refer to the item “Main Brake Torque Confirmation”.)
7. Connect the flexible cable to P34 and P35 on the P.C.Board.
8. Adjust the Supply Motor Torque Offset Value. (Refer to the “Sec.5 Electrical Adjustment”.)
9. Adjust the Take-up Motor Torque Offset Value. (Refer to the “Sec.5 Electrical Adjustment”.)
10. Confirm the Tape Tension Value on playback mode.

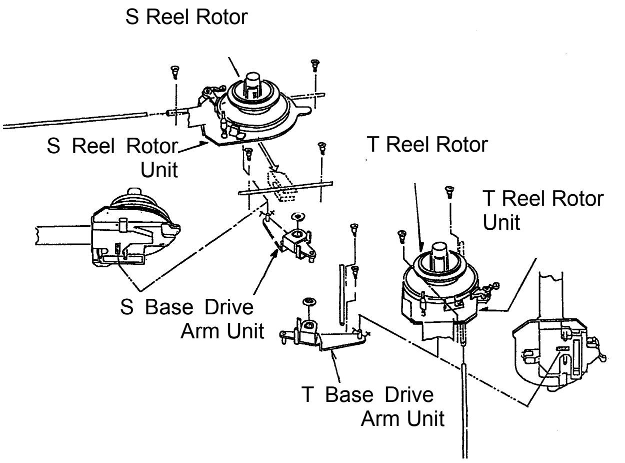


Fig.2-17-2

2-18. Main Brake Torque Confirmation

TP	S Reel, T Reel
MODE	EJECT (POWER OFF)
TOOLS	Dial Torque Gauge (VFK1191A) Torque Gauge Adaptor (VFK1152)
SPEC.	Direction A : 0.4cNm ± 0.2cN·m (20gf·cm ± 10gfcm) Direction B : 0.2cNm ± 0.1cN·m (20gf·cm ±10gfcm)

1. Attach the adaptor (VFK1152) to the gauge (VFK1191A)
2. The following procedure is common for both S and T reels.
3. Push the core of the solenoid away from the reel, and pull it back to contact the reel.
4. Put the torque gauge on the reel, and turn the gauge to the direction A until the brake starts slipping against the reel.
5. Measure the torque under the condition above, and confirm that it is in specification.
6. Remove the gauge once and push the core of the solenoid away from the reel.
7. Pull the core of the solenoid back to contact the reel, and put the gauge again on the reel.
8. Turn the gauge to the direction B until the brake starts slipping against the reel.
9. Measure the torque under the condition above, and confirm that it is in the specification.

Note: When measuring the brake torque, perform the Above step 3 at the first.

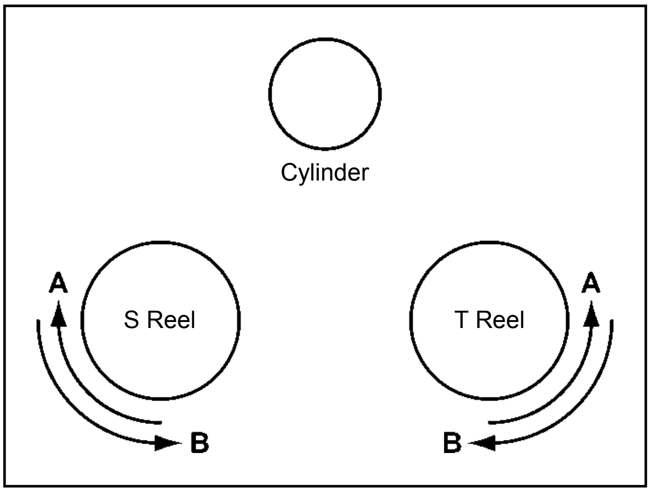


Fig.2-18-1

2-19. Supply & Take-up Brake Arm Unit Replacement

(Removal)

1. Release the brake by pressing the iron core of the Supply and Take-up Brake Solenoid.
2. Remove the 2 Cut Washers (A) as shown in figure 2-19, and remove the Supply and Take-up Brake Arm Unit.

(Installation)

1. Install the new Supply and Take-up Brake Arm Unit follow the removal steps in reverse order.

NOTE: Hook up the Brake Arm Spring as shown below figure.

2. After installation, please perform the “Main Brake Torque Confirmation”. (Refer to the item “2-18. Main Brake Torque Confirmation”.)

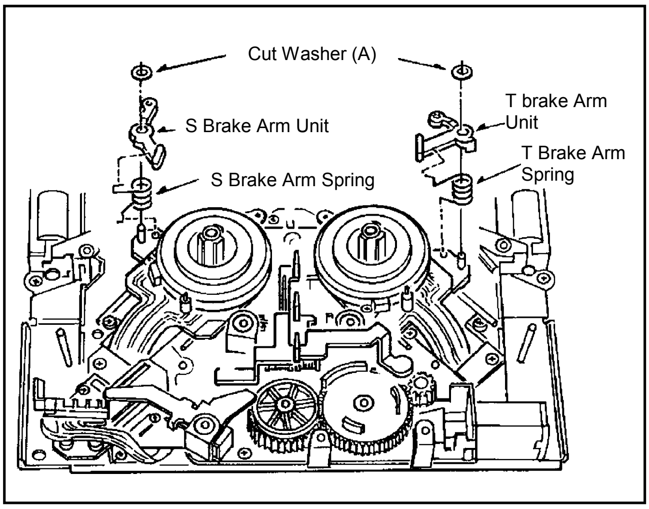


Fig.2-19-1

2-20. S-Brake Solenoid Replacement & Adjustment

(Removal)

1. Disconnect the connector P15 on the Mech.I/F Board.
2. Unscrew the 2 screws (A), and remove Supply Brake Solenoid Base Unit as shown in Figure 2-20-1.
3. Unscrew the 2 screws (B), and remove Supply Brake Solenoid as shown in Figure 2-20-1.

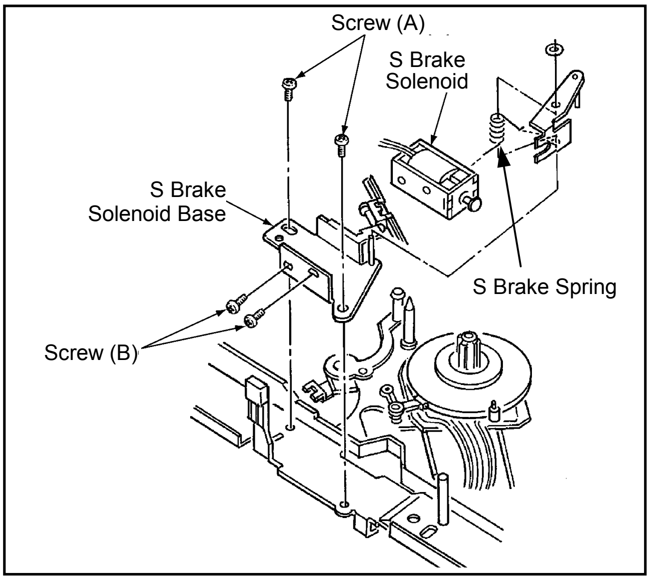


Fig.2-20-1

(Installation)

1. Install the Supply Brake Solenoid in the reverse steps of the removal.
2. After installation, adjust the Solenoid Position Adjustment.

<Solenoid Position Adjustment>

1. Make sure that the position of the reels is in the M cassette position. If not, make it in the M cassette position.
2. Confirm that the gap (A) between brake pad and reel is more than 0.2mm as shown in figure 2-20-2.
3. If the gap (A) is out of specification, loosen the 2 screws (A) and shift the brake solenoid so that the gap (A) is within specification. After the adjustment, tighten the screws (A)
4. Make the reel position in S and L cassette positions, and confirm that the gap (A) is more than 0.2mm at each reel position as shown.

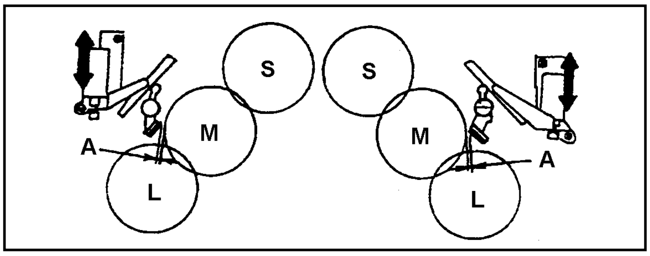


Fig.2-20-2

2-21. T-Brake Solenoid Replacement & Adjustment

(Removal)

1. Disconnect the connector P18 on the Mech. I/F Board.
2. Unscrew the 2 screws A, and remove Take-up Brake Solenoid Base Unit as shown in Figure 2-21-1.
3. Unscrew the 2 screws B, and remove Take-up Brake Solenoid as shown in Figure 2-21-1.

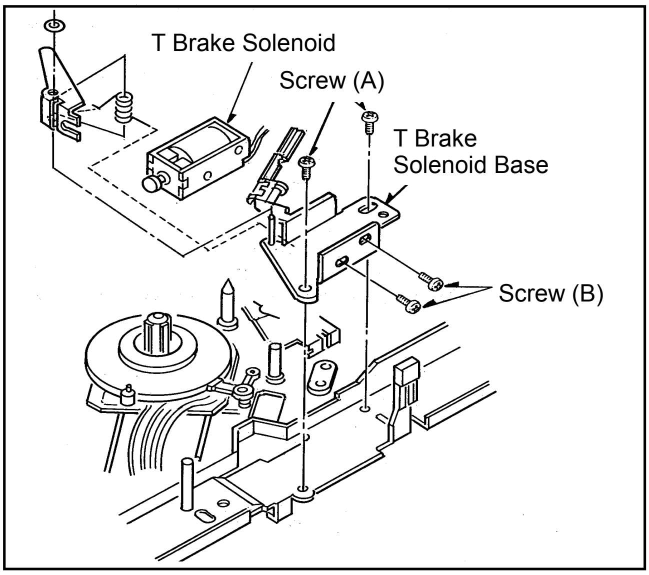


Fig.2-21-1

(Installation)

1. Install a new Reel Motor Unit in the reverse steps of the removal.

<Solenoid Position Adjustment>

1. The position adjustment is same procedures as the Supply Reel Table side
   (Refer to the figures 2-20-1 and Fig. 2-20-2)

2-22. Reel Motor Unit Replacement

(Removal)

1. Remove the connector P16 on the Mech. I/F Board. (Fig.2-22-1)
2. Unscrew the 3 screws A, and remove the cover unit (Fig.2-22-1)
3. Unscrew the 2 screws B, and remove the reel motor unit. (Fig.2-22-1)

(Installation)

1. Install a new Reel Motor Unit in the reverse steps of the removal.

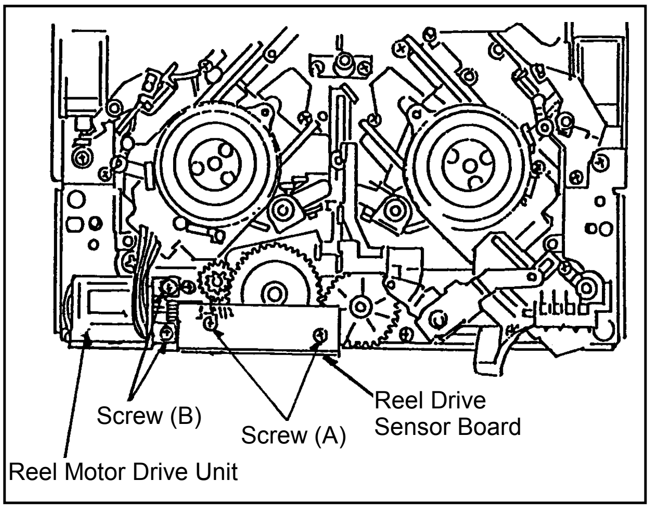

Screw (B)
Screw (A)
Reel Drive
Sensor Board
Reel Motor Drive Unit

Fig.2-22-1

2-23. Distinction SW Unit Replacement

(Removal)

1. Remove the connector P17 on the backside of the Mech. I/F board.
2. Remove the spring on the Distinction SW Unit.
3. Remove the 3 screws A and the Distinction SW Unit. (Fig. 2-23-1)

(Installation)

1. Install a new Distinction SW Unit and the spring in the reverse steps of the removal.
2. Confirm that both M and L size cassette touch the Distinction SW Unit.

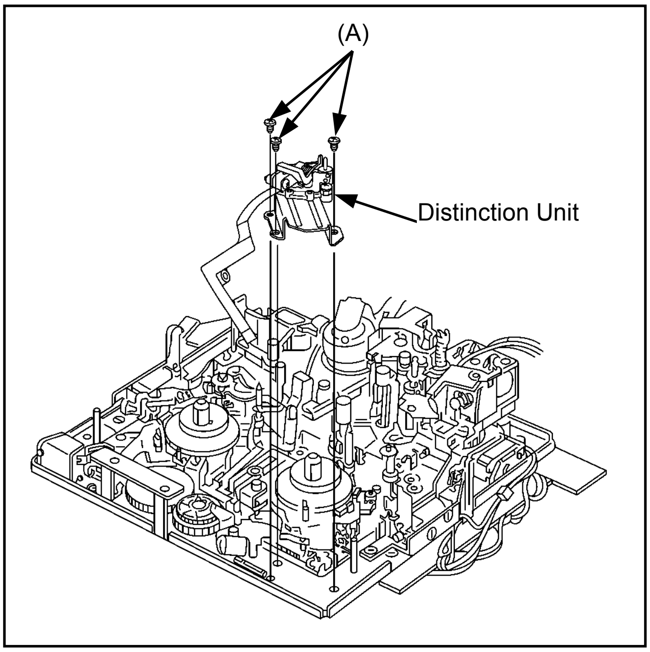

(A)
Distinction Unit

Fig.2-23-1

2-24. M Stopper Solenoid Unit Replace & Adjustment

(Removal)

1. Remove the connector P24 on the backside of the Mech. I/F board.
2. Remove the Pinch Solenoid Unit. (Refer to the Pinch Solenoid Replacement procedure.)
3. Remove the T Tension Base Unit. (Refer to the T5 Arm Unit Replacement Procedure.)
4. Remove the 4 screws A and B, and then the solenoid. (Fig. 2-24-1)

(Installation)

1. Install a new solenoid in the reverse steps of the removal.
2. The following position adjustment is required.

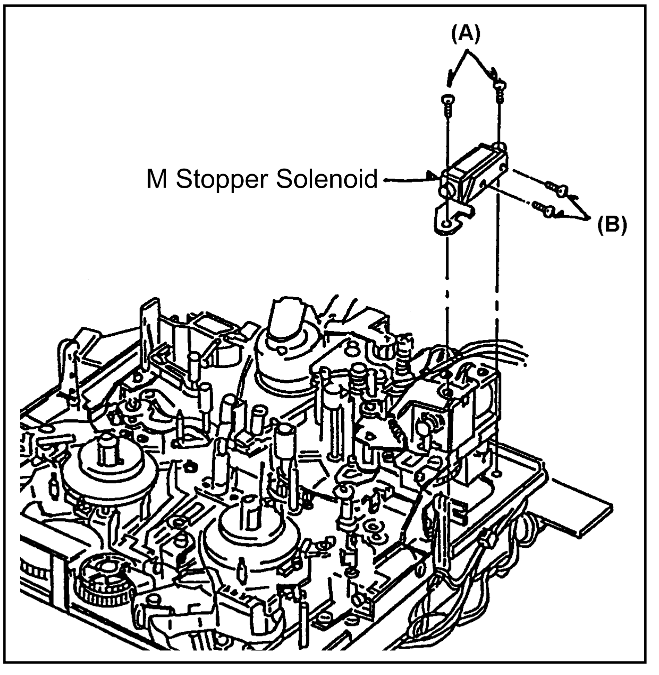


Fig.2-24-1

(Adjustment)

1. Place the reel in the L cassette position.
2. Press the core of the solenoid to release the M stopper.
3. Loosen the screw A and adjust the solenoid position so that the gap between the Mech. Chassis and the M stopper is 1.1 to 1.3mm. (Fig. 2-24-2)
4. Tighten the screw A after the adjustment

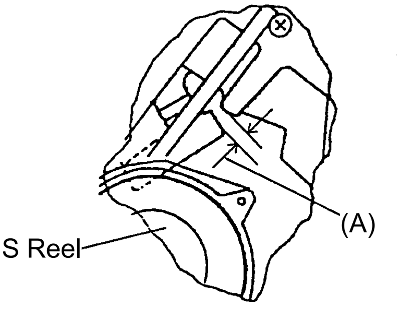


Fig.2-24-2

SECTION 4

ELECTRICAL ADJUSTMENT

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1. POWER Supply Unit

1-1. Output Voltage Adjustment

BOARD	POWER 3
TP	TP1, TP14 [GND] TP2, TP14 [GND]
ADJ.	VR2, VR3
TAPE	---
INPUT	EJECT
MODE	---
M. EQ	Digital Volt Meter
SPEC.	VR2 : 1.92V ± 0.05V VR3 : 1.40V ± 0.05V

1. Connect the Digital Volt Meter (+) to TP1 and (-) to TP14, and adjust VR2 so that the voltage is in the specification.
2. Connect the Digital Volt Meter (+) to TP2 and (-) to TP14, and adjust VR3 so that the voltage is in the specification.

2. SYS (System Control) Board

2-1. Battery Voltage Detect Adjustment

BOARD	VOUT/SYS
TP	DC IN (See Figure Below)
ADJ.	SERVICE MENU ”H00”
TAPE	---
INPUT	EJECT
MODE	---
M. EQ	Digital Volt Meter
SPEC.	12.00V ± 0.02V

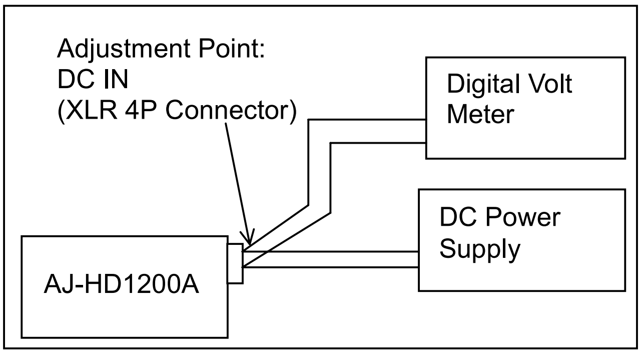
<Service Manu Setting>

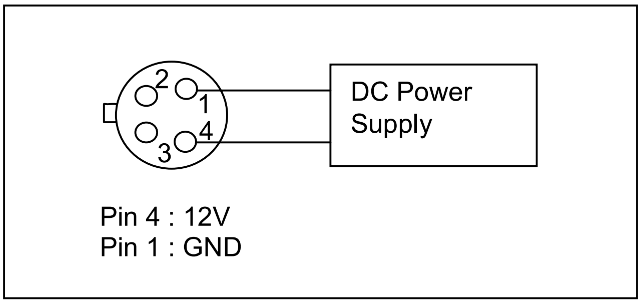
H00: OTHER ADJUST ----- H21: UNDERCUT ADJ

1. Set the 2nd bit of DIP SW1 on the VOUT/SYS Board to the ON position.
2. Set the “LOCAL/MENU/REMOTE” switche on the rigit upper side of the front panel to the MENU position.
3. Supply a DC Power from DC Supply to the XLR 4 pin connector on the rear panel as shown in the figure below.
4. Connect the Digital Volt Meter to the DC Power Supply as shown in the figure below.
5. Adjust the voltage of the DC power Supply so that the voltage is 12.00V ± 0.02V.
6. Open the Service Menu and select H00: OTHER ADJUST (H21: UNDERCUT ADJ).
7. Continually pushing the MODE button until the display is updated.
8. To return the main menu, press the PAGE and MODE buttons together.
9. Return the LOCAL/MENU/REMOTE switch to the LOCAL position, and 2nd bit of DIP SW2 to the “OFF” position.

<CAUTION>

1. Disconnect an AC cable and make this adjustment with DC Power. Supply.
2. This adjustment should be performed after completion of the Paragraph “1-1. Output Voltage Adjustment”.





<Confirmation of Under Cut Operation>

1. After completion of the above adjustment, confirm the “Under Cut Operation”
2. Make sure that the Optional IF Boards AJ-YA120AG and AJ-YAD120AG are installed. If not, install them according to the Operation Instraction.
3. Supply DC 12.00V from DC Power Supplier to the XLR 4 pin connector and connect the digital volt meter as shown in the above figire.
4. Turn on the VTR power and insert a cassette tape, and place the VTR in the STOP mode.
5. Observe the VTR condition while decrease the voltage at the XLR connector for 10.60V ± 0.20V.
6. Confirm that the VTR changes to Auto Eject and then Auto Off mode.
7. If it does not, perform the adjustment steps 1 to 9 again.

3. SERVO Board

3-1. FG DC Adj.

BOARD	SERVO
TP	--------
ADJ.	SERVICE MENU
TAPE	--------
INPUT	--------
MODE	--------
M. EQ	--------
SPEC.	Perform the procedure below.

<Service Manu Setting>

SERVO ADJUST ----- A01: FG DC ADJ

1. Open the service menu and select the above.
2. The VTR performs the following operation, when continuously pressing the “MODE” button on the Front Panel.
    1) Brake Solenoid ON (Brake OFF)
    2) Capstan Motor Rotates
    3) Reel Motors Rotate

    After 5-10 seconds,

    4) Brake Solenoid OFF (Brake ON)
    5) FG DC Adjustment
3. When the FG DC adjustment is completed, it shows “A01: FG DC ADJ” “OK”.

<Note>

This adjustment is needed after replacing of Mechanical Chassis, Servo Board or VOUT/SYS Board.

3-2. Reel Torque Gain Adj.

BOARD	SERVO
TP	--------
ADJ.	SERVICE MENU
TAPE	--------
INPUT	--------
MODE	EJECT
M. EQ	--------
SPEC.	Perform the procedures below.

<Service Manu Setting>

SERVO ADJUST ----- A02: RL GAIN ADJ

1. Open the service menu and select the above.
2. The VTR perfumes the following operation, when continuously pressing the “SEARCH” button on the Front Panel.
    1) T Reel Rotates
    2) S Reel Rotates
3. After 5-6 seconds, the adjustment value on the monitor will be disappeared and then updated.
4. Repeat the steps 2 and 3 again.

<Note> This adjustment should be performed before “3-3. Reel Torque Offset Adjustment”.

3-3. Motor Torque Offset Adj.

BOARD	SERVO
TP	REEL MOTOR
ADJ.	SERVICE MENU
TAPE	---
INPUT	---
MODE	---
M. EQ	Dial Torque Gauge (VFK1191A) Dial Torque Gauge Adaptor (VFK1152)
SPEC.	0.16cN·m ± 0.01cN·m (Average of 5 times monument)

<Service Manu Setting>

SERVO ADJUST ----- A03: T TORQUE
SERVO ADJUST ----- A04: S TORQUE

1. Open the service menu and select the above.
2. Set the Dial Torque Gauge with Torque Gauge Adaptor on the T reel table.
3. Press the “MODE” button on the Front Panel.
4. Adjust the T Reel Torque by pressing the <+> and <-> buttons on the Front Panel so that the average of 5 times measurement is in the specification.
5. Press the “SET” switch on the Front Panel.
6. Perform the same steps for the S Reel Table.

3-4. PG Sifter Adj.

BOARD	SERVO
TP	SERVIE MENU
ADJ.	---
TAPE	VFM3780KML
INPUT	---
MODE	PLAY
M. EQ	OSCILLOSCOPE
SPEC.	Performer the procedures below.

<Service Manu Setting>

SERVO ADJUST ----- A05: PG SHFTER

1. Open the service menu and select the above.
2. Play back the HDLP Alignment Tape.
3. Continuously press the “MODE” switch on the Front Panel so that the previous data disappears and new data come up.

3-5. Photo Sensor Voltage Adj.

Refer the Paragraph 1-3. Photo Sensor Voltage Adj. in the “Section 3 (Mechanical Adjustment).

3-6. Tension Arm Offset Adj.

Refer the Paragraph 1-5. Tension Arm Offset Adj. in the “Section 3 (Mechanical Adjustment).

3-7. Tension Arm Play Voltage Adj.

Refer the Paragraph 1-7. Tension Arm Play Voltage Adjustment in the “Section 3 (Mechanical Adjustment).

4. RF/EQ Board

< Note >

After replacing the cylinder unit, perform the paragraphs 4-1, 4-2, 4-3 and 4-4. “RF Level Adjustments” before performing LISTA adjustment.

4-1. RF Level Adj. (HDLP)

BOARD	RF/EQ
TP	See Table Below
ADJ.	Service Menu
INPUT	----
MODE	STILL
TAPE	VFM3780KML (Color Bar)
M. EQ	Oscilloscope
SPEC.	A Max = 500mVp-p ± 50mV

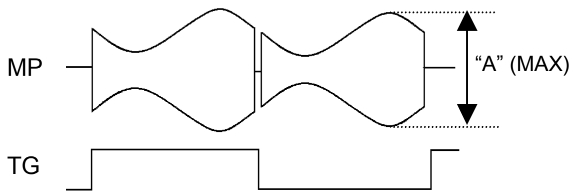
<Service Menu Setting>

B00: RF ADJUST ---- B-1: HDLP PB ADJUST

1. Open the service menu and select the “HDLP PB ADJUST”.
2. Connect the oscilloscope to Measuring Point (MP) and Trigger Point (TG) as shown in the table below.
3. Play back the HDLP alignment tape (VFM3780KML) in the STILL mode.
4. Adjust each EVR so that the envelope maximum level is in the specification.
5. To save the EVR data, select B22 DEFAULT and press the “Set Button”, then the “SAVE” indication appears, press the “SET Button” again.

B1: HDLP_PB ADJUSTMENT

Test Point		Adj. EVR	Trigger Point
TP201 (PB L13ch)	B01 B02	PB MAG L1 PB MAG L3	TP1 (PB L13 HSW)
TP202 (PB R13ch)	B03 B04	PB MAG R1 PB MAG R3	TP2 (PB R13 HSW)
TP203 (PB L24ch)	B05 B06	PB MAG L2 PB MAG L4	TP3 (PB L24 HSW)
TP204 (PB R24ch)	B07 B08	PB MAG R2 PB MAG R4	TP4 (PB R24 HSW)
TP205 (RP L12ch)	B09 B10	RP MAG L1 RP MAG L2	TP5 (RP L12 HSW)



Refer the measuring point (MP) and torigger point (TG) in the above for each head.

4-2. RF Level Adj. (HDSP)

BOARD	RF/EQ
TP	See Table Below
ADJ.	Service Menu
INPUT	----
MODE	STILL
TAPE	VFM3580KM or KL (25M Color Bar)
M. EQ	Oscilloscope
SPEC.	“A” Max = 500mVp-p ± 50mV (TP201, TP202, TP203, TP204) “A” Max = 750mVp-p ± 50mV (TP205)

<Service Menu Setting>

B00: RF ADJUST ---- B-2 HDSP ADJUST

1. Open the service menu and select the “HDSP PB ADJUST”.
2. Connect the oscilloscope to Measuring Point (MP) and Trigger Point (TG) as shown in the table below.
3. Play back the 25M alignment tape (VFM3580KMor KL) in the STILL mode.
4. Adjust each EVR so that the envelope maximum level is in the specification.
5. To save the EVR data, select B22 DEFAULT and press the “Set Button”, then the “SAVE” indication appears, press the “SET Button” again.

<Note>

Since the adjustment value of TP205 differs from others.

B2: HDSP_PB ADJUSTMENT

Test Point		Adj. EVR	Trigger Point
TP201 (PB L13ch)	B01 B02	PB MAG L1 PB MAG L3	TP1 (PB L13 HSW)
TP202 (PB R13ch)	B03 B04	PB MAG R1 PB MAG R3	TP2 (PB R13 HSW)
TP203 (PB L24ch)	B05 B06	PB MAG L2 PB MAG L4	TP3 (PB L24 HSW)
TP204 (PB R24ch)	B07 B08	PB MAG R2 PB MAG R4	TP4 (PB R24 HSW)
TP205 (TR L21ch)	B09 B10	TR MAG L2 TR MAG L1	TP7 (TR L21 HSW)

4-3. RF Level Confirmation (SDSP)

BOARD	RF/EQ
TP	See Table Below
ADJ.	Service Menu
INPUT	----
MODE	STILL
TAPE	VFM3580KM or KL (25M Color Bar)
M. EQ	Oscilloscope
SPEC.	"A" Max = 500mVp-p ± 100mV (TP201, TP202, TP203, TP204) "A" Max = 750mVp-p ± 100mV (TP205)

<Service Menu Setting>

B00: RF ADJUST ---- B-3 SDSP ADJUST

1. Open the service menu and select the "SDSP PB ADJUST".
2. Connect the oscilloscope to Measuring Point (MP) and Trigger Point (TG) as shown in the table below.
3. Play back the 25M alignment tape (VFM3580KM or KL) in the STILL mode.
4. Make sure that each envelope maximum level is in the specification.

<Note>

Since the adjustment value of TP205 differs from others.

B-3: SDSP_PB ADJUSTMENT

Test Point		Trigger Point
TP201 (PB L13ch)	B01 B02	TP1 (PB L13 HSW)
TP202 (PB R13ch)	B03 B04	TP2 (PB R13 HSW)
TP203 (PB L24ch)	B05 B06	TP3 (PB L24 HSW)
TP204 (PB R24ch)	B07 B08	TP4 (PB R24 HSW)
TP205 (TR L21ch)	B09 B10	TP7 (TR L21 HSW)

4-4. RF Level Confirmation (DVSP)

BOARD	RF/EQ
TP	See Table Below
ADJ.	Service Menu
INPUT	----
MODE	STILL
TAPE	VFM3010ESD (Color Bar)
M. EQ	Oscilloscope
SPEC.	A Max = 500mVp-p ± 100mV

<Service Menu Setting>

B00: RF ADJUST ---- B-4 SDSP ADJUST

1. Open the service menu and select the "SDSP PB ADJUST".
2. Connect the oscilloscope to Measuring Point (MP) and Trigger Point (TG) as shown in the table below.
3. Play back the DV alignment tape (VFM3010ESD) in the STILL mode.
4. Make sure that each envelope maximum level is in the specification.

B-4: DVSP_PB ADJUSTMENT

Test Point		Trigger Point
TP201 (PB L13ch)	B01 B02	TP1 (PB L13 HSW)
TP202 (PB R13ch)	B03 B04	TP2 (PB R13 HSW)
TP203 (PB L24ch)	B05 B06	TP3 (PB L24 HSW)
TP204 (PB R24ch)	B07 B08	TP4 (PB R24 HSW)
TP205 (RP L12ch)	B09 B10	TP5 (RP L12 HSW)

4-5. Automatic Adjustment Procedure

(Software)

This software is for Automatic RF Adjustment of DVCPRO HD VTR, model AJ-HD1200A.
This adjustment should be performed after completion of the RF Level Adjustment.

< Function >

1) RF Adjustment
   [DVCPRO HD-LP (Recording and Playback), DVCPRO HD-SP, DVCPRO 50, DVCPRO and DV(Playback)]
2) Checking of Error Rate
3) Download and Upload of EVR Data
4) Saving/ Loading the data of Error Rate and EVR
5) Printing the data of Error Rate and EVR

(Before Installation)

* PC Condition

OS : Windows95/ 98/ 98SE/ ME/ 2000 or Over
Display : Over 256 color (if lower than 256 color, the color may have the distortion)

* How to get this software

Download **“Automatic RF Adjustment Software (VFK1892)”** from Jig software page on Global Service Web site.

* Installation Method

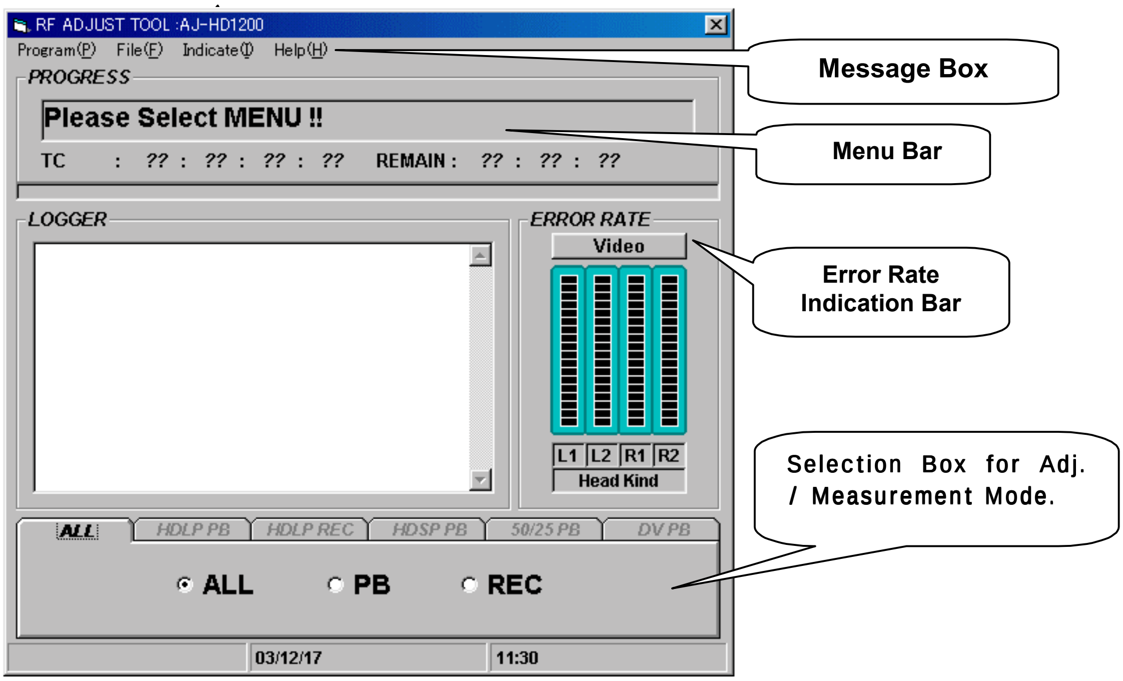
1) Extract the downloaded software.
2) Click **“setup.exe”**.
3) Follow the indication.

* Un-installation Method

Open **“Control Panel”** on Windows and use **“Add/Remove Programs”** to un-install this software.

(Explanation of Each Windows)

a) Main Window



Please Select MENU !!

TC : ?? : ?? : ?? : ?? REMAIN : ?? : ?? : ??

03/12/17 11:30

RF ADJUST TOOL :AJ-HD1200
Program(P) File(F) Indicate(I) Help(H)
PROGRESS
LOGGER
ERROR RATE
Video
L1 L2 R1 R2
Head Kind
ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB
ALL
PB
REC

Message Box

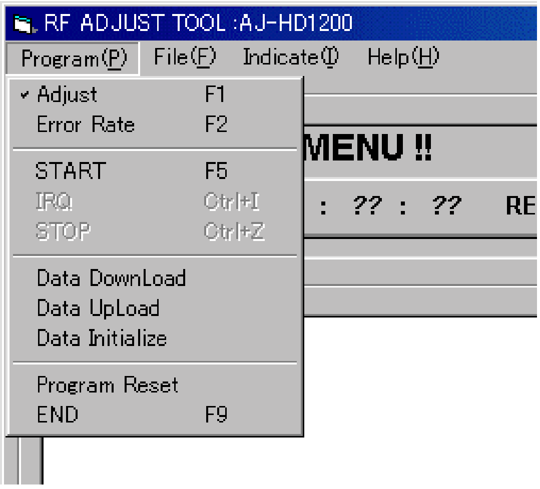
Menu Bar

Error Rate Indication Bar

Selection Box for Adj. / Measurement Mode.

a-1) Explanation of Main window and menu bar.

1) Program Menu


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
Adjust F1
Error Rate F2
START F5
IRQ Ctrl+I
STOP Ctrl+Z
Data DownLoad
Data UpLoad
Data Initialize
Program Reset
END F9
MENU !!
: ?? : ??
RE

[Adjust]
Adjustment program can be selected clicking this portion.

[Error Rate]
Error rate check can be selected clicking this portion.

[START]
Adjustment or Error rate checking can be started by clicking this portion.

[IRQ]
Break into the program during execution by clicking this portion. (It is effective, only on limited process.)

[STOP]
The program can be stopped, forcibly by clicking this portion.

[Data Download]
Receiving EVR data to PC from the attached VTR. (VTR to PC)

[Data Upload]
Transfer the RF adjustment data from PC to VTR for setting up. (PC to VTR)

* Data Upload can not be accessed unless **“Data Download”**, **“Load on File menu”** or **all adjustment program** is executed.

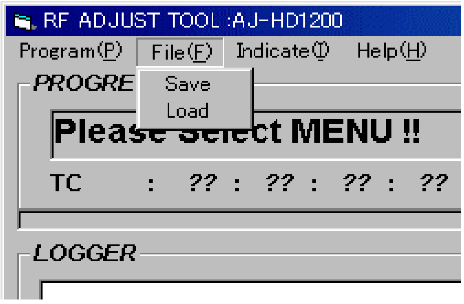
[Data Initialize (include Upload)]
Setting up the RF initial adjustment data into the attached VTR.

[Program Reset]
All parts of application program can be reset.

[END]
By clicking this portion, application software can be closed.

2) File menu

By clicking this, error rate data and EVR data can be processed as a file.


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
Save
Load
PROGRE
Please Select MENU !!
TC : ?? : ?? : ?? : ??
LOGGER

[Save]

Error rate and/or EVR data can be saved on the file.

During this mode, following file can be made. ***.dst

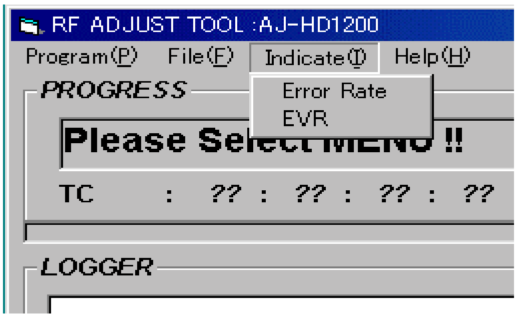
* This item can not be accessed unless **"Data Download"**, **"Load on File menu"** or **all adjustment program** is executed.

[Load]

Error rate and/ or EVR data can be loaded from the file (***.dst).

3) Indicate Menu

This is the menu which indicates ErrorRate/ EVR (Adjustment value)


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
PROGRESS
Error Rate
EVR
Please Select MENU !!
TC : ?? : ?? : ?? : ??
LOGGER

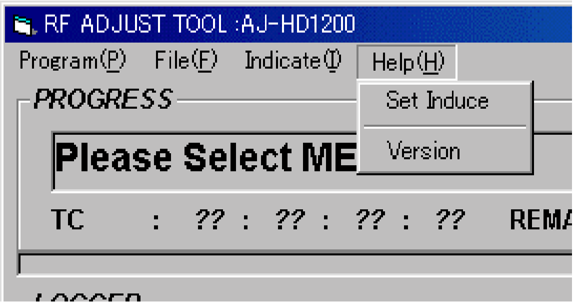
[Error Rate]

Error rate data can be displayed.

[EVR]

EVR data can be displayed.

4) Help Menu


RF ADJUST TOOL :AJ-HD1200
Program(P)
File(F)
Indicate(I)
Help(H)
PROGRESS
Set Induce
Version
Please Select ME
TC : ?? : ?? : ?? : ??
REMA
LOGGER

[Manual]

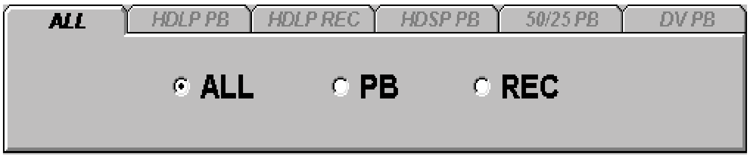
This software doesn't use this function.

[Version]

Software version is displayed.

a-2) Adjustment/ Measurement item selection BOX

1) Selection of Adjustment/ Measurement category


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

● ALL ○ PB ○ REC

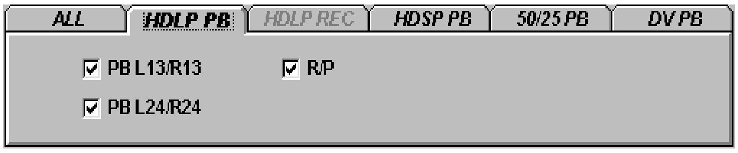
[ALL]
All items are selected.

[PB]
Playback category is selected. HDLP PB, HDSP PB, 50/25 PB or DV PB can be individually selected.

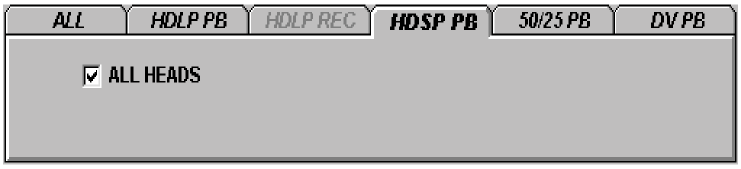
[REC]
Recording category is selected. (HDLP) can be individually selected.

2) Selection of Playback Category

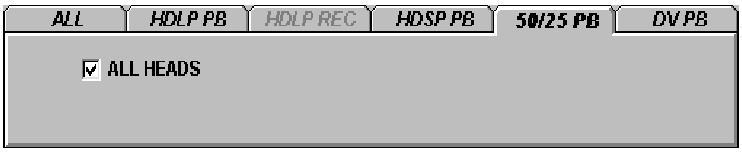
Select each item according to the one which the adjustment (measurement) is required.
Check mark on the BOX shows that its item is selected (valid)


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

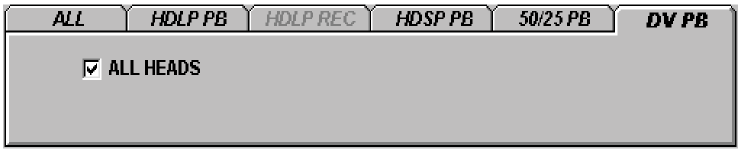
☑ PB L13/R13 ☑ R/P
☑ PB L24/R24


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

☑ ALL HEADS


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

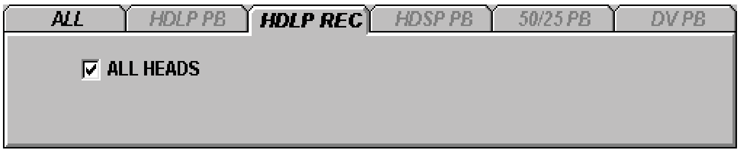
☑ ALL HEADS


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

☑ ALL HEADS

3) Selection of Recording Category

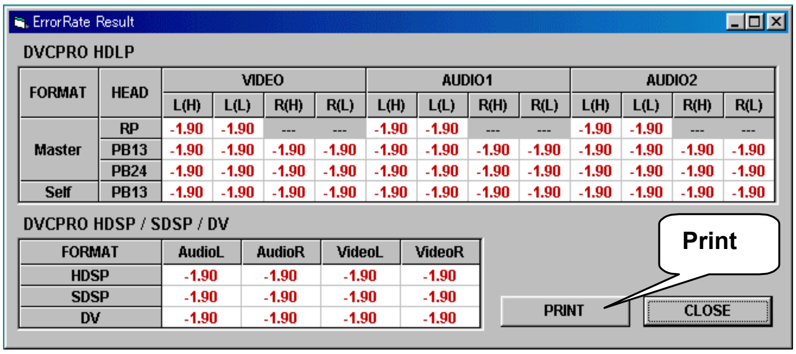
Select each item according to the one which the adjustment (measurement) is required.
Check mark on the BOX shows that its item is selected (valid)


ALL
HDLP PB
HDLP REC
HDSP PB
50/25 PB
DV PB

☑ ALL HEADS

b) The result of error rate

The error rate data can be displayed and printed.


ErrorRate Result
PRINT
CLOSE
Print

DVCPRO HDLP

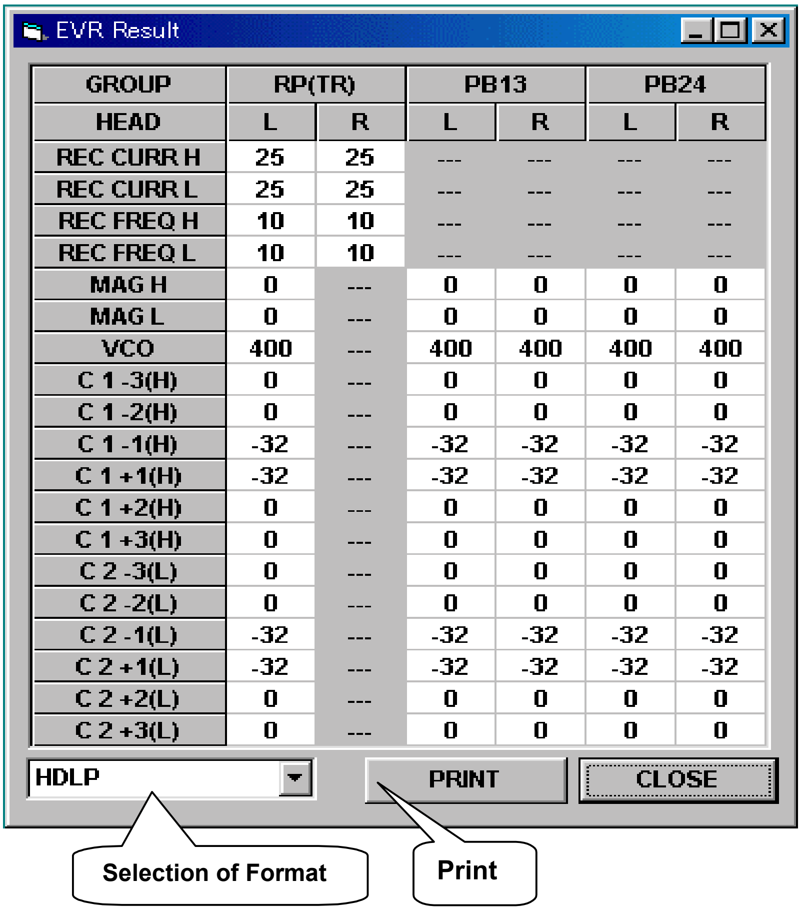
FORMAT	HEAD	VIDEO				AUDIO1				AUDIO2			
		L(H)	L(L)	R(H)	R(L)	L(H)	L(L)	R(H)	R(L)	L(H)	L(L)	R(H)	R(L)
Master	RP	-1.90	-1.90	---	---	-1.90	-1.90	---	---	-1.90	-1.90	---	---
	PB13	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90
	PB24	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90
Self	PB13	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90	-1.90

DVCPRO HDSP / SDSP / DV

FORMAT	AudioL	AudioR	VideoL	VideoR
HDSP	-1.90	-1.90	-1.90	-1.90
SDSP	-1.90	-1.90	-1.90	-1.90
DV	-1.90	-1.90	-1.90	-1.90

c) EVR value Chart

The EVR value (adjustment data) can be displayed and printed.

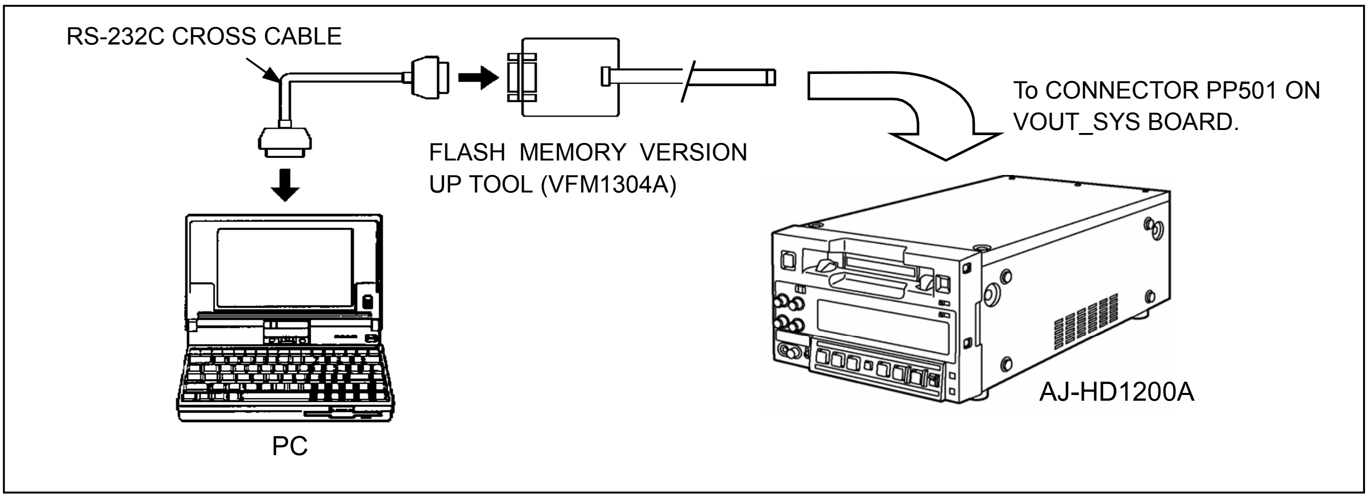

EVR Result
HDLP
PRINT
CLOSE
Selection of Format
Print

GROUP	RP(TR)		PB13		PB24	
HEAD	L	R	L	R	L	R
REC CURR H	25	25	---	---	---	---
REC CURR L	25	25	---	---	---	---
REC FREQ H	10	10	---	---	---	---
REC FREQ L	10	10	---	---	---	---
MAG H	0	---	0	0	0	0
MAG L	0	---	0	0	0	0
VCO	400	---	400	400	400	400
C 1 -3(H)	0	---	0	0	0	0
C 1 -2(H)	0	---	0	0	0	0
C 1 -1(H)	-32	---	-32	-32	-32	-32
C 1 +1(H)	-32	---	-32	-32	-32	-32
C 1 +2(H)	0	---	0	0	0	0
C 1 +3(H)	0	---	0	0	0	0
C 2 -3(L)	0	---	0	0	0	0
C 2 -2(L)	0	---	0	0	0	0
C 2 -1(L)	-32	---	-32	-32	-32	-32
C 2 +1(L)	-32	---	-32	-32	-32	-32
C 2 +2(L)	0	---	0	0	0	0
C 2 +3(L)	0	---	0	0	0	0

4-6. Auto EQ Adjustment Procedure

A) Preparation

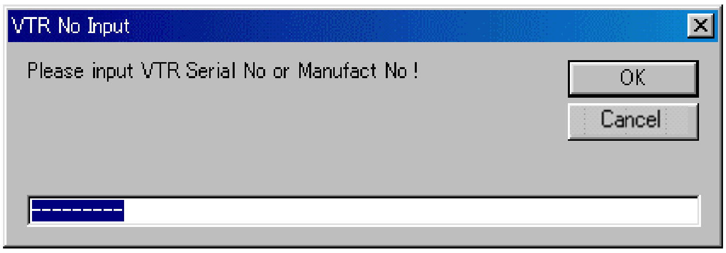
1) Connect the VTR with PC by RS232C cable (Cross cable) as below.



2) Turn the VTR power on.
3) Press the Counter Button on the Front Panel to select the "TC".
4) Turn the 2nd bit of SW1 on the VOUT SYS on.
5) Set the LOCAL/MENU/REMOTE switch on the Front Panel at the "MENU".
6) Select "022 PB_FORMAT" and then select "AUTO".
7) Set the LOCAL/MENU/REMOTE switch on the Front Panel at the "REMOTE".
8) Set the TAPE/EE switch on the Front Panel at the "TAPE"

B) Execution of Software Application.

1) Confirm that the VTR power is on.
2) Select start → Program → Panasonic Tool → HD1200Rf in the Start menu program in PC.
3) Main screen of the application software appears.
4) Open the program menu and select as follows;
   Adjustment: Select **"Program → Adjust"**.
   Measurement: Select **"Program → Error Rate"**.
5) Select the item needed about adjustment & measurement from. Adjustment/ Measurement item selection BOX (refer to (a-2)).
6) Select **"Program → Start"**
7) Input the Serial No. or Manufacture. No. and press **"OK"**.


VTR No Input

Please input VTR Serial No or Manufact No !

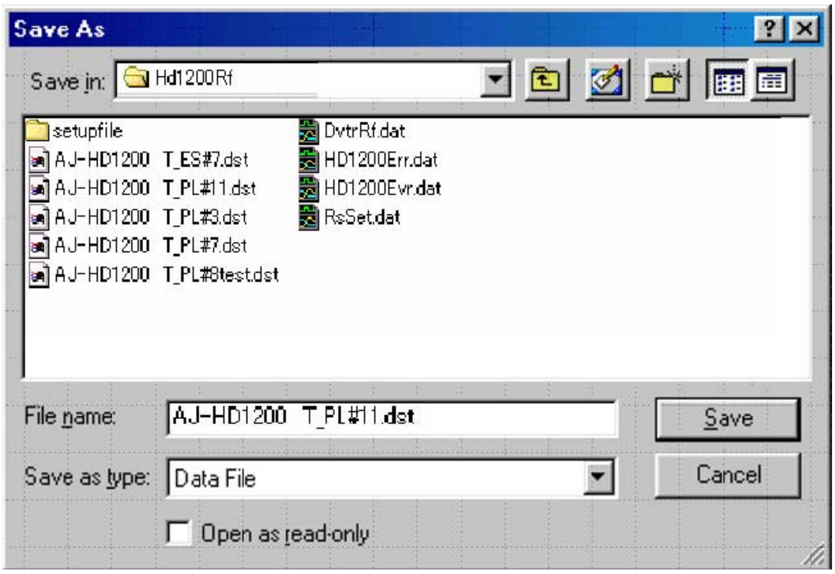
8) Follow the indication on the message box. Then adjustment is started automatically.
9) Error result is displayed after executing the adjustment program. Press close button after confirming it.
10) Select **"File → Save"** in order to save the Error rate data & EVR data to PC.
11) If it is not needed to save them, skip this process.

(Caution)

This item can not be accessed unless **"Data Download"**, **"Load on File menu"** or **all adjustment program** is executed.

12) The screen of item (7) appears again. Press **"OK"** button if serial data information is not required to be changed.

13) Following screen appears. Press **“SAVE”** button.


Save As
Save in: Hd1200Rf
setupfile
AJ-HD1200 T_ES#7.dst
AJ-HD1200 T_PL#11.dst
AJ-HD1200 T_PL#3.dst
AJ-HD1200 T_PL#7.dst
AJ-HD1200 T_PL#8test.dst
DvtrRf.dat
HD1200Err.dat
HD1200Evr.dat
RsSet.dat
Save
Cancel
Open as read-only

File name: AJ-HD1200 T_PL#11.dst

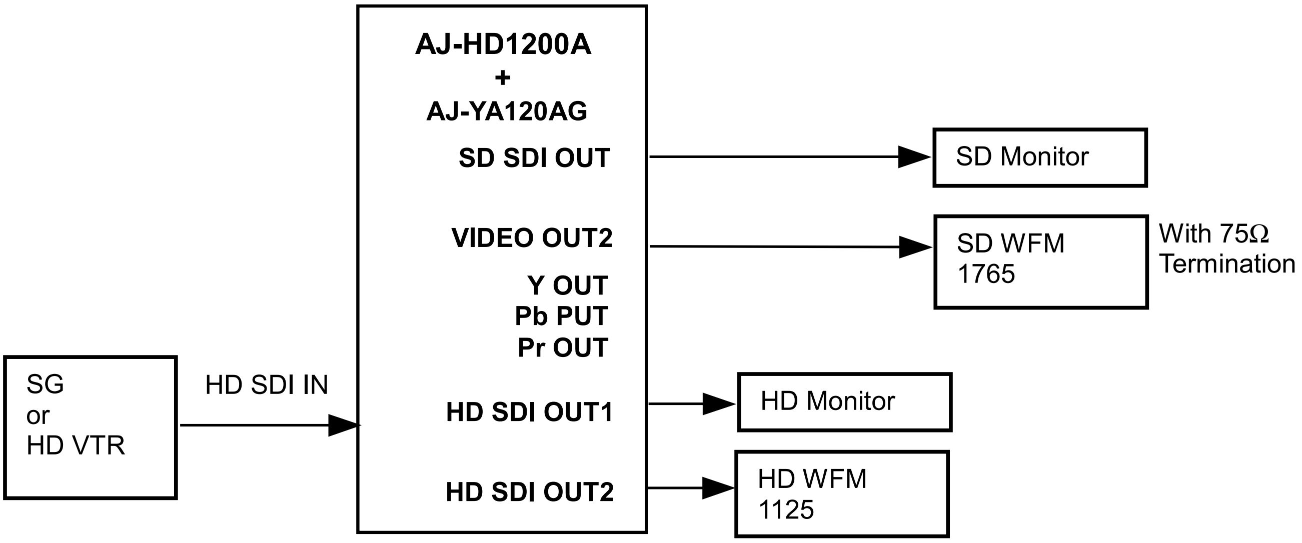
Save as type: Data File

(Reference)

1) Storing the adjustment data manually is not necessary because the adjustment data is automatically stored in the memory after finishing the Automatic Equalizer adjustment.
2) Select **“Program STOP”** if the program needs to be stopped.
3) Remaining time of the tape is monitored by this program. VTR automatically rewinds the tape when the Tape remaining time isn't enough for adjustment or measurement. (Select **“Program → IRQ”** if required to stop REW mode.)

5. V OUT Board

5-1. Connection

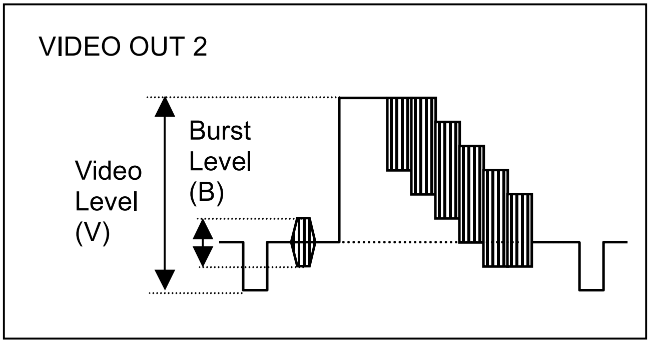

AJ-HD1200A
+
AJ-YA120AG
SD SDI OUT
VIDEO OUT2
Y OUT
Pb PUT
Pr OUT
HD SDI OUT1
HD SDI OUT2
SD Monitor
SD WFM
1765
With 75Ω
Termination
SG
or
HD VTR
HD SDI IN
HD Monitor
HD WFM
1125

Note:
1. All cable should be 75Ω and 1.5m.
2. Optional Board AJ-YA120AG should be installed in the AJ-HD1200A

5-2. VIDEO OUT2 Level and Frequency Response Adj.

BOARD	VOUT/SYS
TP	VIDEO OUT 2
ADJ.	VR430, VR431
INPUT	----
MODE	HD SDI IN : 1080/59i Color Bar
TAPE	EE
M. EQ	WFM(1765), Vectorscope
SPEC.	Video Level (V) = 1000mV±10mV Burst Level (B) =286mV ± 7mV Vector Dot = ±2.5°, ±2.5%

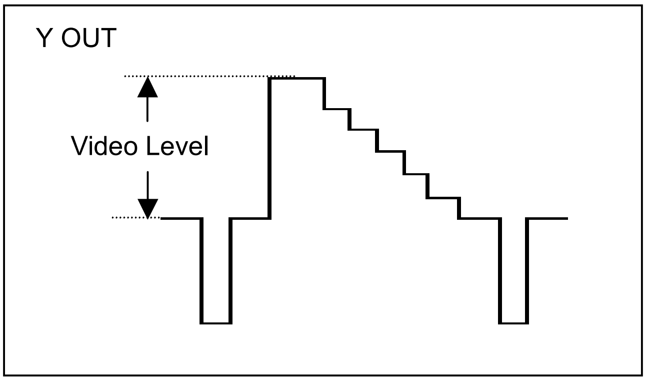
1. Adjust VR430 so that the video level (V) is in the specification.
2. Adjust VR431 so that the burst level (B) is in the specification.
3. The vector dot in the vector scope be within the specification.


VIDEO OUT 2
Video
Level
(V)
Burst
Level
(B)

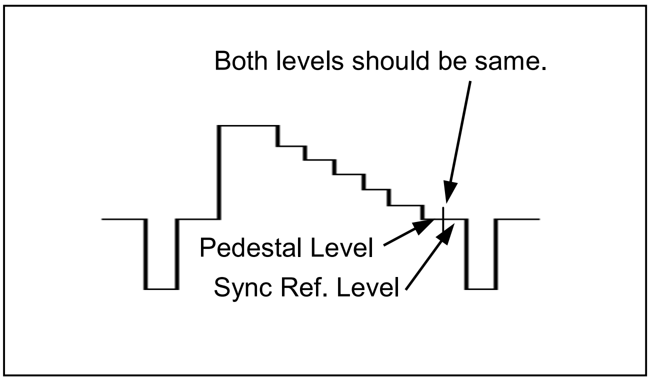
5-3. Y/G OUT Level Adj.

BOARD	VOUT/SYS
TP	Y/G OUT
ADJ.	VR300, VR306, VR307
INPUT	----
MODE	HD SDI IN : 1080/59i Color Bar
TAPE	EE
M. EQ	Oscilloscope
SPEC.	Video (V) = 700mV±10mV Sync Ref. Level = Pedestal Level (0mV DC±5mV DC) Sync Level = 600mV±10mV

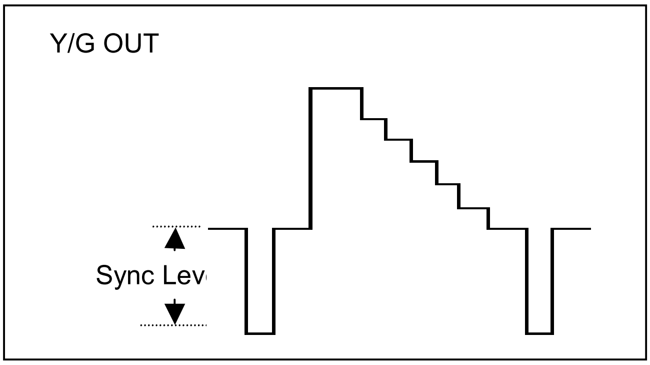
1. Adjust VR300 so that the video level (V) is in the specification.


Y OUT
Video Level

2. Adjust VR307 so that the pedestal level meets to the sync reference level.


Both levels should be same.
Pedestal Level
Sync Ref. Level

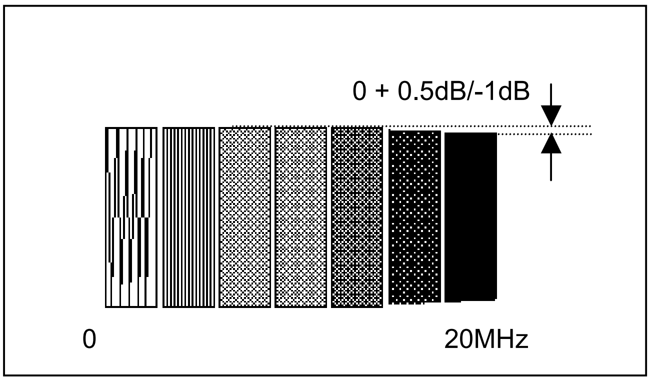
3. Adjust VR306 so that the sync level is in the specification.


Y/G OUT
Sync Lev

5-4. Y/G OUT Frequency Response Adj.

BOARD	VOUT/SYS
TP	Y/G OUT
ADJ.	VR303
INPUT	----
MODE	HD SDI IN : 1080/59i, Multiburst (Y/Pb/Pr)
TAPE	EE
M. EQ	Oscilloscope
SPEC.	0-20MHz = Flat (0+0.5dB/-1dB)

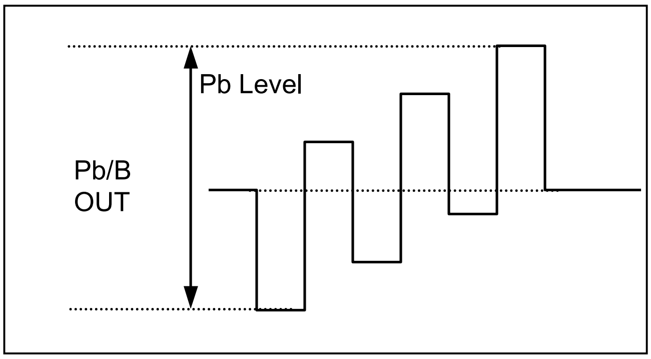
1. Adjust VR303 so that the frequency from 0 to 20MHz is in the specification.


0 + 0.5dB/-1dB
0
20MHz

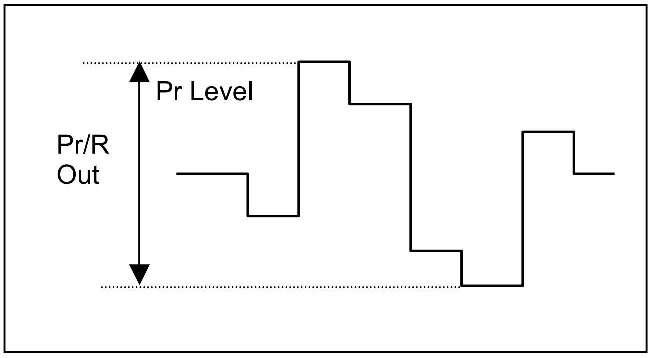
5-5. Pb/B OUT, Pr/R OUT Level Adj.

BOARD	VOUT/SYS
TP	Pb/B OUT, Pr/R OUT
ADJ.	VR301, VR302
INPUT	----
MODE	HD SDI IN : 1080/59i Color Bar (100% With Chroma)
TAPE	EE, EJECT
M. EQ	Oscilloscope
SPEC.	Pb/B OUT Level = 700mV±10mV Pr/R OUT Level = 700mV±10mV

1. Adjust VR301 so that the Pb level is in the specification.


Pb Level
Pb/B
OUT

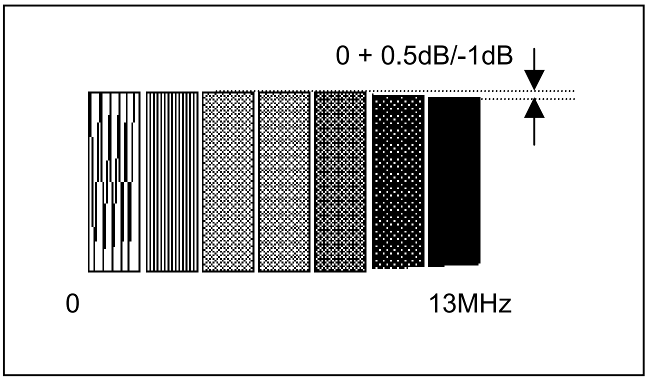
2. Adjust VR302 so that the Pr level is in the specification.


Pr Level
Pr/R
Out

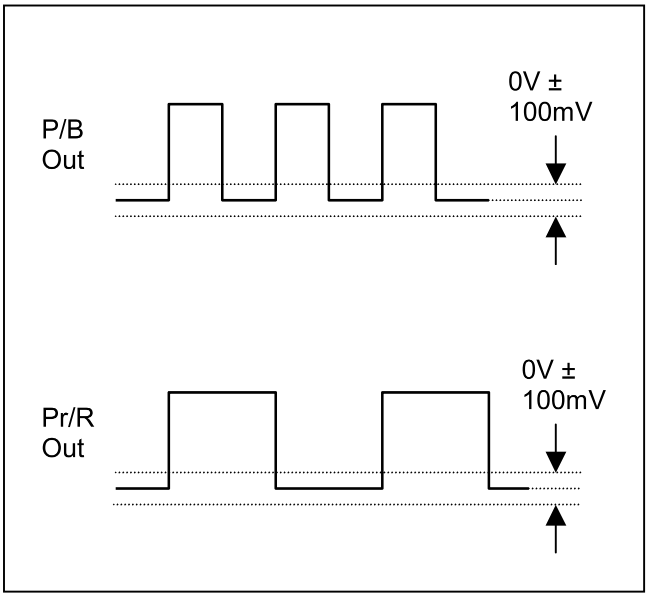
5-6. Pb/B OUT, Pr/R OUT Frequency Response and DC Level Adj.

BOARD	VOUT/SYS
TP	Pb/B OUT, Pr/R OUT
ADJ.	VR304 (Pb LV), VR305 (Pr LV)
INPUT	----
MODE	HD SDI IN : 1080/59i, Multiburst (Y/Pb/Pr)
TAPE	EE
M. EQ	Oscilloscope
SPEC.	Pb/Pr : 0-1.3MHz = Flat (0+0.5dB/-1dB) R/G/B DC Level: 0V ± 100mV

1. Connect the oscilloscope to the Pb/B output and adjust VR304 so that the frequency from 0 to 13MHz is in the specification.
2. Connect the oscilloscope to the Pr/R Output and adjust VR305 so that the frequency from 0 to 13MHz is in the specification.



3. Open the setup menu (616) and select the RGB from the Y/Pb/Pr.
4. Confirm that the DC level on the RGB signal is in the specification.



6. A PROC (Audio) & CUE Boards

6-1. Initial Setting

- In order to perform the audio recording and playback adjustment, Optional Board AJ-YA120AG should be installed.

<Switches on the Front Panel>

Set the Switch and Control on the Front Panel as shown below.

Switch & Control	Setting
REC VR (CH1, 2, 3, 4)	PUSH DOUN
HP VR	CENTER
AUDIO MON SELECT	ST
REMOTE/MENU/LOCAL	LOCAL

<Audio Analyzer Setting>

Set the Audio Analyzer as shown below.

Item	Setting
GENERATOR OUTPUT	50Ω (A&B, BAL, FLOAT)
ANALYZER CHA INPUT	100Ω
ANALYZER CHB INPUT	100Ω
UNIT SETTING	dBu

<Service Menu Setting>

1. Turn ON the 2nd pin of DIP SW1 on the V OUT/SYS Board.
2. Set the REMOTE/MENU/LOCAL switch on the right side of Front Panel to the MENU position so that the “Service Menu” appears.
3. Move the cursor to the following number and set each item.

No.	Item	Setting
G01	REF. LEVEL1	P : FS20 E/MC : FS18
G02	REF. LEVEL2	0dB
G03	REF.LV INI	P/E : 0dB MC : 4dB
G21	IN IMP INI	HIGH
G22	AUD OUT SELUE	TYPE 1

< Setup Menu Setting for Audio >

1. Set the REMOTE/MENU/LOCAL switch on the right side of Front Panel to the MENU position so that the “Service Menu” appears.
2. Move the cursor to the following number and set each item.

No.	Item	Setting	
		P/E	MC
700	AUDIO IN SE L	ANA	
701	CH1 IN LV	0dB	+4dB
702	CH2 IN LV	0dB	+4dB
703	CH3 IN LV	0dB	+4dB
704	CH4 IN LV	0dB	+4dB
706	CH1 OUT LV	0dB	+4dB
707	CH2 OUT LV	0dB	+4dB
708	CH3 OUT LV	0dB	+4dB
709	CH4 OUT LV	0dB	+4dB
730	REC CUE	CH1+2	
731	PB FADE	AUTO	
732	EMBEDED AUD	ON	
765	CUE OUT SEL	OFF	
769	MONI SEL	PLYPCM	
770	MONITOR MIX	STEREO	
771	H.PHONE MIX	STEREO	
780	AUD OUT SEL	LINE	
781	IN IMP SEL	HIGH	

6-2. Output Level Adj.

BOARD	A PROC
TP	LINE OUT (CH1-CH4)
ADJ.	VR201 [CH1 OUT LV] VR202 [CH2 OUT LV] VR203 [CH3 OUT LV] VR204 [CH4 OUT LV]
INPUT	INT SG (MENU:700)
MODE	EE
TAPE	---
M. EQ	Monitor TV, Oscilloscope, Audio Analyzer
SPEC.	AJ-HD1200AP/E: 0 dBu ± 0.2dB AJ-HD1200AMC : +4 dBu ± 0.2 dB

1. Open the setup menu and select the “(700): AUDIO IN SEL”, and set the “INT SG”.
2. Adjust VR201, VR202, VR203 and VR204 so that the Line Output Level at CH1-CH4 is in the specification.
3. Make sure that the Audio Level Meters CH1 and CH2 show as follows.
   AJ-HD1200AP -------------- -20dB
   AJ-HD1200 A E /MC ------ -18dB
4. Change the Audio Level Meter selection to the CH3 and CH4, and confirm that the meter show the same as above.

6-3. Input Level Adj.

BOARD	A PROC_CUE
TP	LINE OUT (CH1-CH4)
ADJ.	VR401 [CH1 IN LV] VR402 [CH2 IN LV] VR403 [CH3 IN LV] VR404 [CH4 IN LV]
INPUT	AUDIO IN (CH1-CH4)
MODE	EE
TAPE	---
M. EQ	Monitor TV, Oscilloscope, Audio Analyzer
SPEC.	AJ-HD1200AP/E : 0 dBu ± 0.2dB AJ-HD1200AMC : +4 dBu ± 0.2 dB

1. Adjust VR401, VR402, VR403 and VR404 so that the audio level at the Line Outputs (CH1-CH4) is in the specification.

6-4. CUE PB Level Adj.

BOARD	RF/CUE
TP	LINE OUT (CH3)
ADJ.	VR413 [CUE PB]
INPUT	---
MODE	PLAY
TAPE	VFM3380KM (50M) VFM3580KM/KL (25M/ 0-14min.) VFM3783KML (HDSP/ 0-10min.)
M. EQ	Monitor TV, Oscilloscope, Audio Analyzer
SPEC.	AJ-HD1200AP/E : 0 dBu ± 1dB AJ-HD1200AMC : +4 dBu ± 1dB

1. Open the setup menu and select “(769) MONI SEL”, and then set the “PLYCUE”.
2. Select “(780) AUD OUT SEL” and then set the “CH1/2”.
3. Play back the 50M Alignment Tape.
4. Adjust VR413 so that the playback level at the Line Out CH3 is in the specification.
5. Play back the 25M and HDSP Alignment Tape, and make sure that the playback level is in the specification.

6-5. CUE Noise Cancel Adj. (HDSP Mode)

BOARD	RF/CUE
TP	LINE OUT (CH3)
ADJ.	VR4306 [C LV18] VR4301 [C PS18]
INPUT	---
MODE	PLAY
TAPE	VFM3783KML
M. EQ	Monitor TV, Oscilloscope, Audio Analyzer
SPEC.	AJ-HD1200AP/E : -40dBu or Less AJ-HD1200AMC : -36dBu or Less

<Audio Analyzer Setting>

Set the Audio Analyzer as shown below.

MEASURE: BANDPASS
BP/BR FREQ: 1200Hz
FILTER: OFF

1. Play back the portion after 10 unites of the Alignment Tape (VFM3783KML/ Without Cue Audio).
2. Adjust VR4306 and VR4301 alternately for 3-4 times to minimize the noise level.

6-6. CUE Noise Cancel Adj. (50M Mode)

BOARD	RF/CUE
TP	LINE OUT (CH3)
ADJ.	VR4305 [C LV9] VR4302 [C PS9]
INPUT	---
MODE	PLAY
TAPE	
M. EQ	
SPEC.	Less than -36dBu

<Audio Analyzer Setting>

Set the Audio Analyzer as shown below.

MEASURE: BANDPASS
BP/BR FREQ: 600Hz
FILTER: OFF

1. Create a 50M recorded tape without the CUE audio by any other DVCPRO50.
   And play back the recorded portion.
2. Adjust VR4305 and VR4302 alternately 3-4 times to minimize the noise level.

6-7. CUE Bias Current Adj.

BOARD	RF/CUE
TP	LINE OUT (CH3)
ADJ.	VR4001 [CUE BIAS]
INPUT	LINE IN (CH1, CH2), AJ-HD1200AP/E : 1KHz, 0 dBu AJ-HD1200AMC : 1KHz, +4 dBu
MODE	REC → PLAY
TAPE	Blank Tape
M. EQ	Audio Analyzer
SPEC.	Maximum Output of Self-Recording/Playback Within -0.5dB

<Audio Analyzer Setting>

Set the Audio Analyzer as shown below.

MEASURE: BANDPASS
BP/BR FREQ: 600Hz
FILTER: OFF

1. Set VR4001 fully CCW position.
2. Reset the front CTL counter to “0”.
3. Supply the above 1 KHz sine wave signal to the LINE IN CH1 and CH2.
4. Place the unit in the record mode and rotate VR4001 by 45 degrees for every fixed time at a time as shown the table below.

Rotation of VR4001	**Recording Time (CTL Counter) [Example]**
0° (Fully CCW)	00:00:00 - 00:30:00
45°	00:30:00 - 01:00:00
90°	01:00:00 - 01:30:00
135°	01:30:00 - 02:00:00
180°	02:00:00 - 02:30:00
225°	02:30:00 - 03:00:00
270°	03:00:00 - 03:30:00
315° (Fully CW)	03:30:00 – 04:00:00

5. Play back the portion just recorded and set VR4001 at the point where the Play back the portion recorded and set VR4001 as the point where the maximum CH3 output.
6. maximum CH3 output.

6-8. CUE REC/PB Level Adj.

BOARD	RF/CUE
TP	LINE OUT
ADJ.	VR4002 [REC CURR]
INPUT	LINE IN, AJ-HD1200AP/E : 1KHz, 0 dBu AJ-HD1200AMC : 1KHz, +4 dBu
MODE	REC → PLAY
TAPE	Blank Tape
M. EQ	Audio Analyzer
SPEC.	AJ-HD1200AP/E : 0 dBu ± 1 dB AJ-HD1200AMC : +4 dBu ± 1 dB

1. Open the Set-up menu and select “(730) REC CUE” and set “CH1+2”.
2. Supply the following signal to both CH1 and CH2 LINE IN.
   AJ-HD1200AP/E: 1 kHz, 0dBu ± 1dB
   AJ-HD1200AMC: 1 KHz, +4dBu ± 1dB
3. Confirm that the playback level is in the specification.
   If not, adjust VR4002 and repeat the steps 1-3 until the playback level is in the specification.

7. SGEN_SDI & UDC Boards (AJ-YA120AG)

Preparation

1. In order to perform the electrical adjustment for the optional SDI In/OUT Board (AJ-YA120AG), it should be installed in the Digital HD Video Cassette Player AJ-HD1200A.
2. Refer the Operation Instructions for more details of the installation.

7-1. NTSC 4fsc Adj.

BOARD	SGEN SDI / UDC
TP	TP300
ADJ.	VR305 [NTSC FREQ]
TAPE	---
INPUT	---
MODE	EE
M. EQ	Frequency Counter
SPEC.	14.318180MHz ± 500Hz

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	SDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Do not supply any signal to the SDREF input.
2. Connect the frequency counter to TP300 and adjust VR305 so that the frequency is in the specification.

7-2. HD 74MHz / 59.94HzAdj.

BOARD	SGEN SDI / UDC
TP	TP401
ADJ.	VR401 [HD FREQ59]
TAPE	---
INPUT	EE
MODE	---
M. EQ	Frequency Counter
SPEC.	74.175824MHz ± 500Hz

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	HDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Connect the frequency counter to TP401 and adjust VR401 so that the frequency is in the specification.

7-3. PAL 4fsc Adj.

BOARD	SGEN SDI / UDC
TP	TP300
ADJ.	VR304 [PAL FREQ]
TAPE	---
INPUT	---
MODE	EE
M. EQ	Frequency Counter
SPEC.	17.734475MHz ± 500Hz

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	SDREF

1. Connect the frequency counter to TP300 and adjust VR304 so that the frequency is in the specification.

7-4. HD 74.25MHz / 50Hz, 60.00Hz Adj.

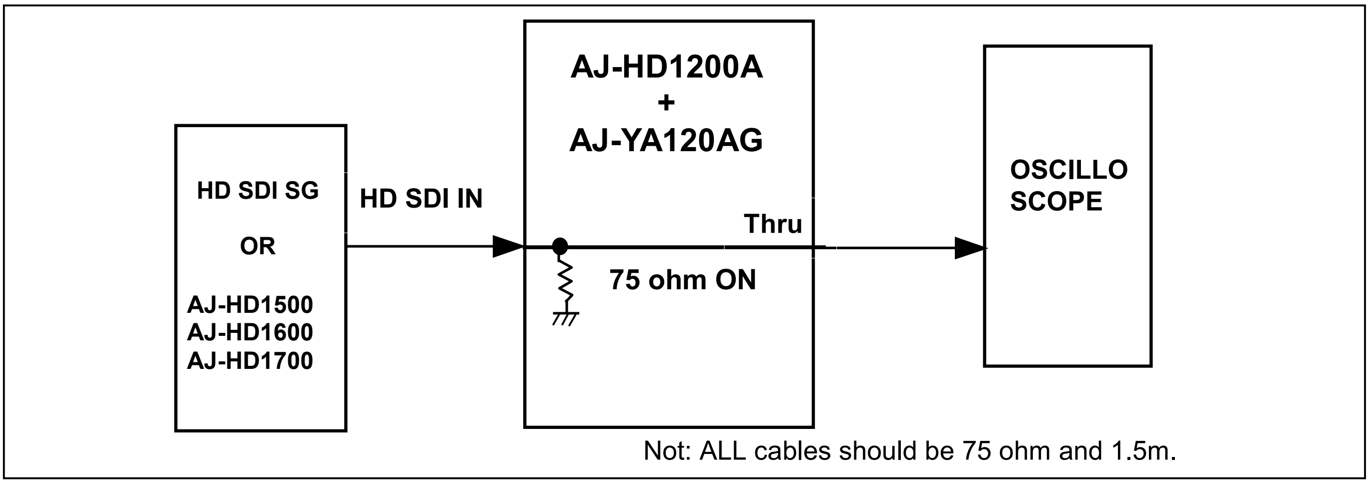
BOARD	SGEN SDI / UDC
TP	TP401
ADJ.	VR400 [HD FREQ60]
TAPE	---
INPUT	---
MODE	EE
M. EQ	Frequency Counter
SPEC.	74.250000MHz ± 500Hz

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	HDREF

1. Connect the frequency counter to TP400 and adjust VR400 so that the frequency is in the specification.

Adjustment System


HD SDI SG
OR
AJ-HD1500
AJ-HD1600
AJ-HD1700
HD SDI IN
AJ-HD1200A
+
AJ-YA120AG
Thru
75 ohm ON
OSCILLO SCOPE

Not: ALL cables should be 75 ohm and 1.5m.

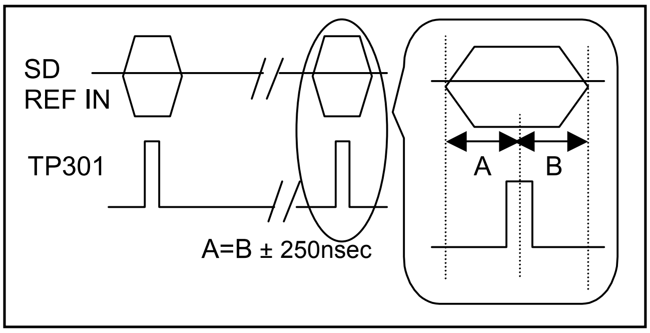
7-5. NTSC Burst Sampling Phase Adj.

BOARD	SGEN SDI / UDC
TP	SD REF IN Through OUT, TP301
ADJ.	VR302 [NTSC_S/H]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	Pulse at TP301=Center of Burst ± 250nsec (A=B ± 250nsec)

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	SDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Adjust VR302 so that the position of sampling pulse (TP301) is positioned at the center of the burst signal on the SD REF signal.


SD REF IN
TP301
A
B
A=B ± 250nsec

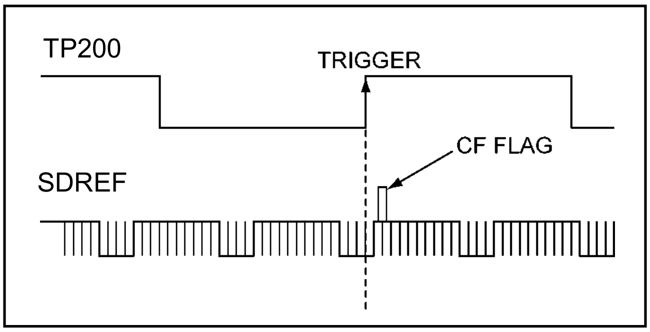
7-6. NTSC CF Phase (1) Adj.

BOARD	SGEN SDI / UDC
TP	TP200, SD REF IN Through OUT
ADJ.	VR300 [NTSC_CF]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	CF flag of SD REF input is coincided with leading edge of TP200

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	SDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Supply the same signal to the SD REF IN (thru out) to the oscilloscope.
2. Set VR300 at fully CCW position.
3. Slowly rotate VR300 CW and stop it when the CF flag on the SD REF meet the rising edge of TP200.


TP200
TRIGGER
CF FLAG
SDREF

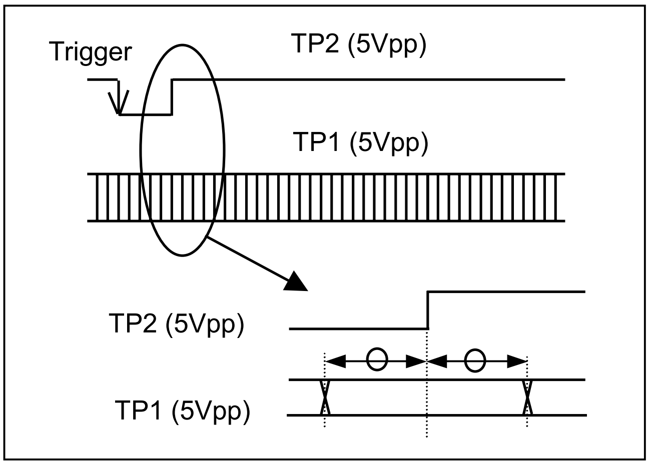
7-7. NTSC CF Phase (2) Adj.

BOARD	SGEN SDI / UDC
TP	TP1, TP2, TP200, HD REF IN Through
ADJ.	VR300 [NTSC_CF]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	Rising Edge of TP2=Center of pulse of TP1 (Center ± 5nsec)

<VTR Menu Setting>

SYSTEM FREQUENCY:	59/60
OUTREF:	SDREF
HD FREQUENCY:	59/23
SYS FORMAT	1080i

1. Adjust VR300 so that the rising edge of TP2 is at the center of TP1.
2. After completion of step 1, confirm “7-6. NTSC CF Phase Adjustment (1)”.



<Note>

The oscilloscope should be observed in the CHOP mode.

Do not rotate VR300 too much, which may invert the phase of the CF pulse. If this is the case, repeat “7-6. NTSC CF Phase (1) Adj. and 7-7. NTSC CF Phase (2) Adj.”.

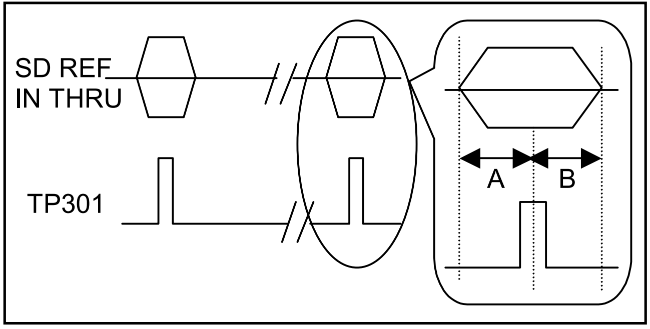
7-8. PAL Bust Sampling Phase Adj.

BOARD	SGEN SDI / UDC
TP	TP301
ADJ.	VR303 [PAL_S/H]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	Pulse at TP301=Center of Burst ± 250nsec (A = B ± 250nsec)

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	SDREF

1. Adjust VR303 so that the position of sampling pulse (TP301) is at the center of the burst signal on the SD REF signal.



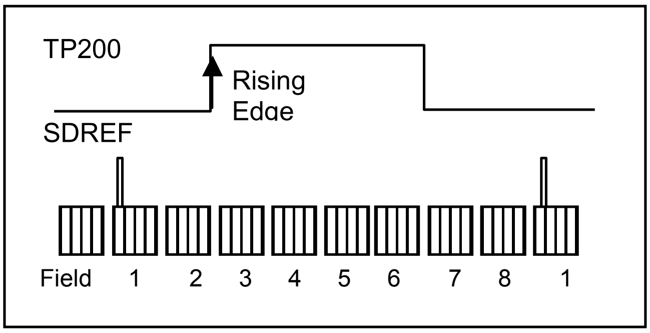
7-9. PAL CF Phase (1) Adj.

BOARD	SGEN SDI / UDC
TP	TP200, SD REF IN Through
ADJ.	VR301 [PAL_CF]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	Rising Edge of TP200 = 3rd Field of SD REF

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	SDREF

1. Supply the same signal to the SD REF IN (thru out) to the oscilloscope.
2. Set VR301 at fully CCW position.
3. Slowly rotate VR301 CW and stop it when the 3rd field of on the SD REF meets the rising edge of TP200.



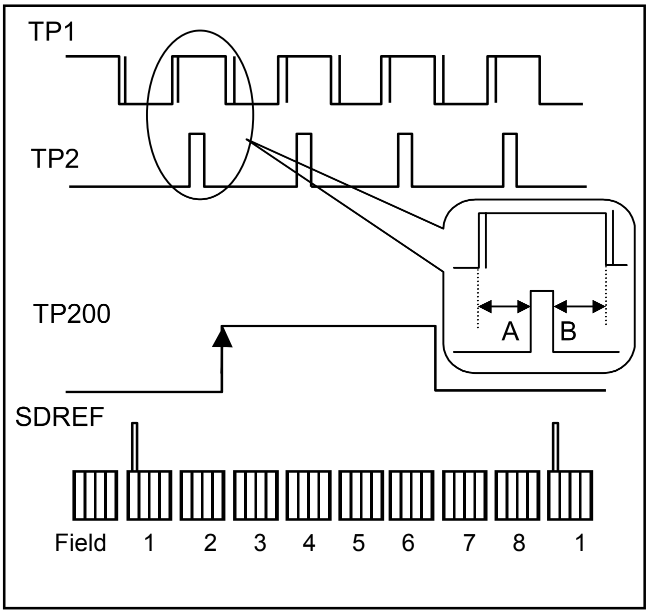
7-10. PAL CF Phase (2) Adj.

BOARD	SGEN SDI / UDC
TP	TP1, TP2, TP200, SD REF IN Through
ADJ.	VR301 [PAL_CF]
TAPE	---
INPUT	SD REF IN = Black Burst (W/CF Flag) INT SG
MODE	EE
M. EQ	Oscilloscope
SPEC.	· A = B ± 2msec. · Rising Edge of TP200 =: 3rd Field of SD REF SD REF

<VTR Menu Setting>

SYSTEM FREQUENCY:	50
OUTREF:	SDREF

1. Adjust VR301 so that the rising edge of TP2 is at the center of TP1.
2. Repeat "7-9. PAL CF Phase (1) Adj. and 7-10. PAL CF Phase (2) Adj."



8. 1394 IF Boards (AJ-YAD120AG)

Preparation

1. In order to perform the electrical adjustment for the optional 1394 IF Board (AJ-YAD120AG), it should be installed in the Digital HD Video Cassette Player AJ-HD1200A.
2. Refer the Operation Instructions for more details of the installation.

8-1. PLL Adj.

BOARD	1394 IF
TP	TP671
ADJ.	VC670
TAPE	---
INPUT	---
MODE	EJECT
M. EQ	Digital Volt Meter
SPEC.	1.5V ± 0.1V

1. Do not connect an IEEE1394 cable to the Board.
2. Adjust VC670 so that the voltage is in the specification.

SECTION 5

BLOCK DIAGRAMS

CONTENTS

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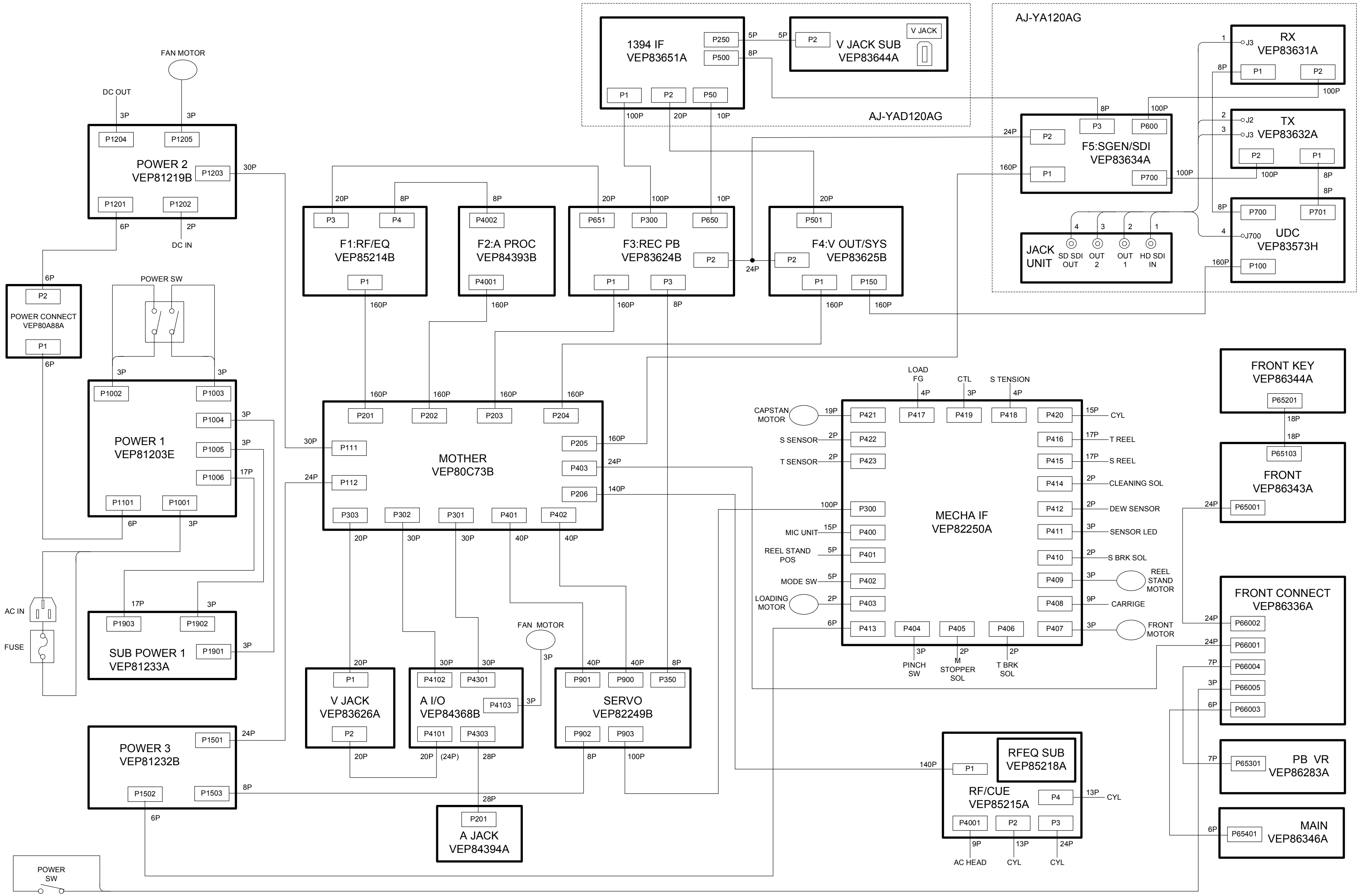
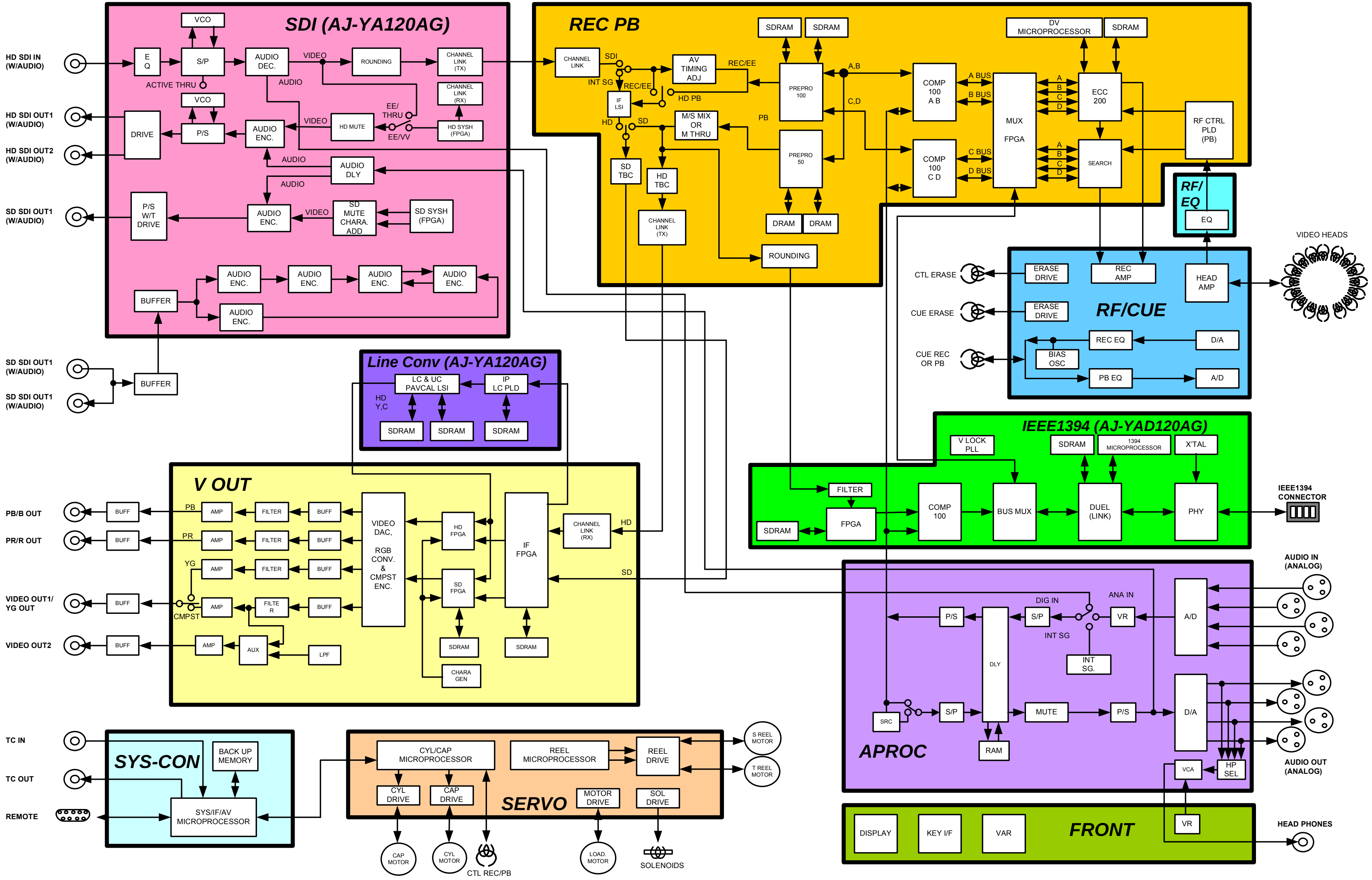
UDC (AJ-YA120AG) BLOCK DIAGRAM........BLK-11
SGEN/SDI (AJ-YA120AG) BLOCK DIAGRAM BLK-12

INTERCONNECTION


AJ-YAD120AG
1394 IF
VEP83651A
P250
P500
P1
P2
P50
5P
8P
100P
20P
10P
V JACK SUB
VEP83644A
V JACK
AJ-YA120AG
RX
VEP83631A
J3
TX
VEP83632A
J2
UDC
VEP83573H
J700
P700
P701
P100
F5:SGEN/SDI
VEP83634A
P3
P600
P700
JACK UNIT
SD SDI OUT
OUT 2
OUT 1
HD SDI IN
FAN MOTOR
DC OUT
POWER 2
VEP81219B
P1204
P1205
P1203
P1201
P1202
30P
6P
2P
DC IN
POWER CONNECT
VEP80A88A
POWER SW
POWER 1
VEP81203E
P1002
P1003
P1004
P1005
P1006
P1101
P1001
17P
AC IN
FUSE
SUB POWER 1
VEP81233A
P1903
P1902
P1901
POWER 3
VEP81232B
P1501
P1502
P1503
24P
F1:RF/EQ
VEP85214B
P3
P4
F2:A PROC
VEP84393B
P4002
P4001
F3:REC PB
VEP83624B
P651
P300
P650
P2
P1
P3
F4:V OUT/SYS
VEP83625B
P501
P150
160P
MOTHER
VEP80C73B
P201
P202
P203
P204
P111
P112
P205
P403
P206
P303
P302
P301
P401
P402
140P
40P
V JACK
VEP83626A
A I/O
VEP84368B
P4102
P4301
P4103
P4101
P4303
28P
(24P)
SERVO
VEP82249B
P901
P900
P350
P902
P903
A JACK
VEP84394A
MECHA IF
VEP82250A
LOAD FG
CTL
S TENSION
CAPSTAN MOTOR
S SENSOR
T SENSOR
MIC UNIT
REEL STAND POS
MODE SW
LOADING MOTOR
P421
P417
P419
P418
P420
P422
P423
P300
P400
P401
P402
P403
P413
P404
P405
P406
P407
P416
P415
P414
P412
P411
P410
P409
P408
CYL
T REEL
S REEL
CLEANING SOL
DEW SENSOR
SENSOR LED
S BRK SOL
REEL STAND MOTOR
CARRIGE
FRONT MOTOR
PINCH SW
M STOPPER SOL
T BRK SOL
19P
15P
9P
FRONT KEY
VEP86344A
P65201
18P
FRONT
VEP86343A
P65103
P65001
FRONT CONNECT
VEP86336A
P66002
P66001
P66004
P66005
P66003
PB VR
VEP86283A
P65301
MAIN
VEP86346A
P65401
RFEQ SUB
VEP85218A
RF/CUE
VEP85215A
P4001
13P
AC HEAD

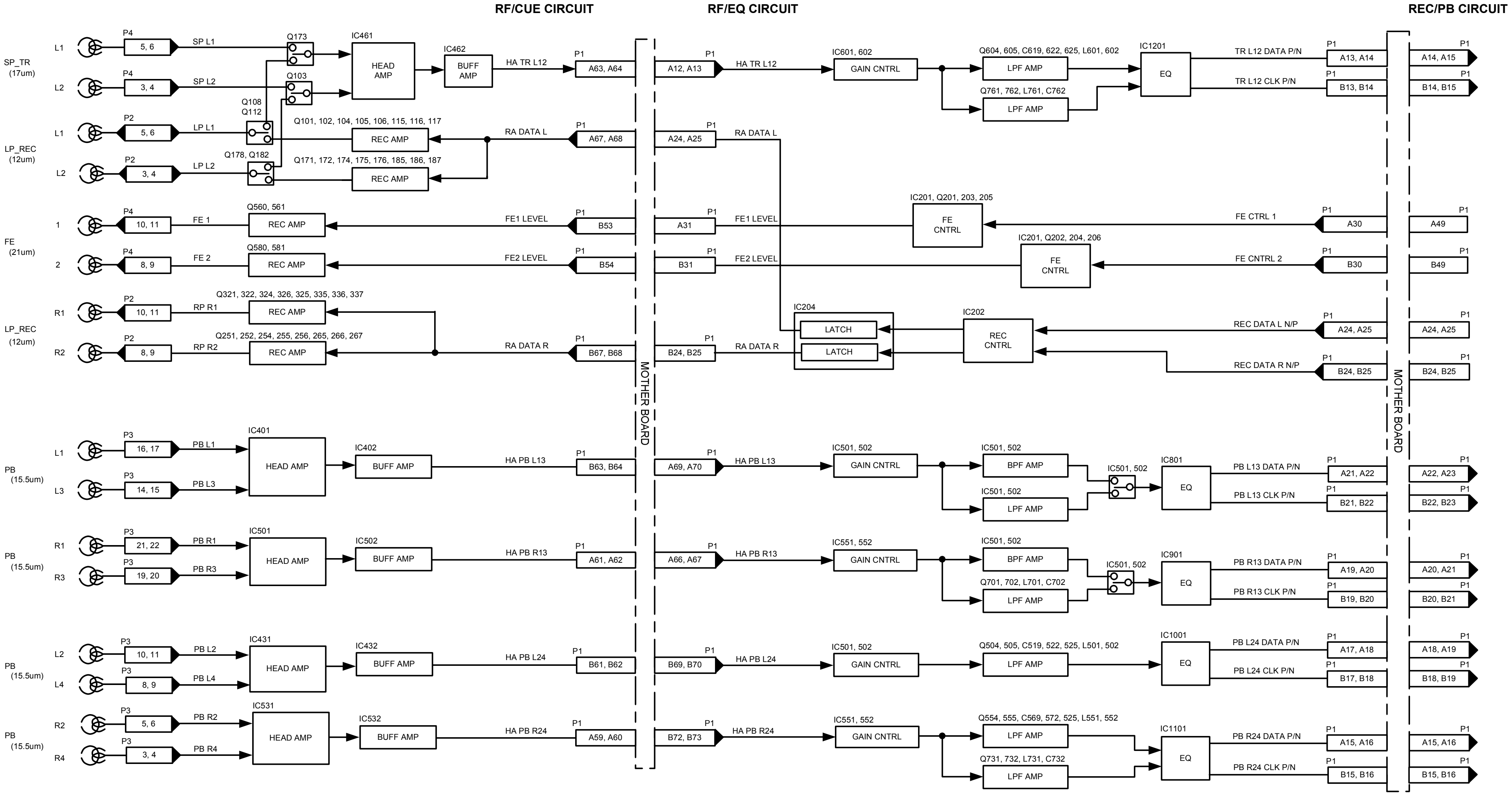
BLK-1

OVERALL BLOCK DIAGRAM

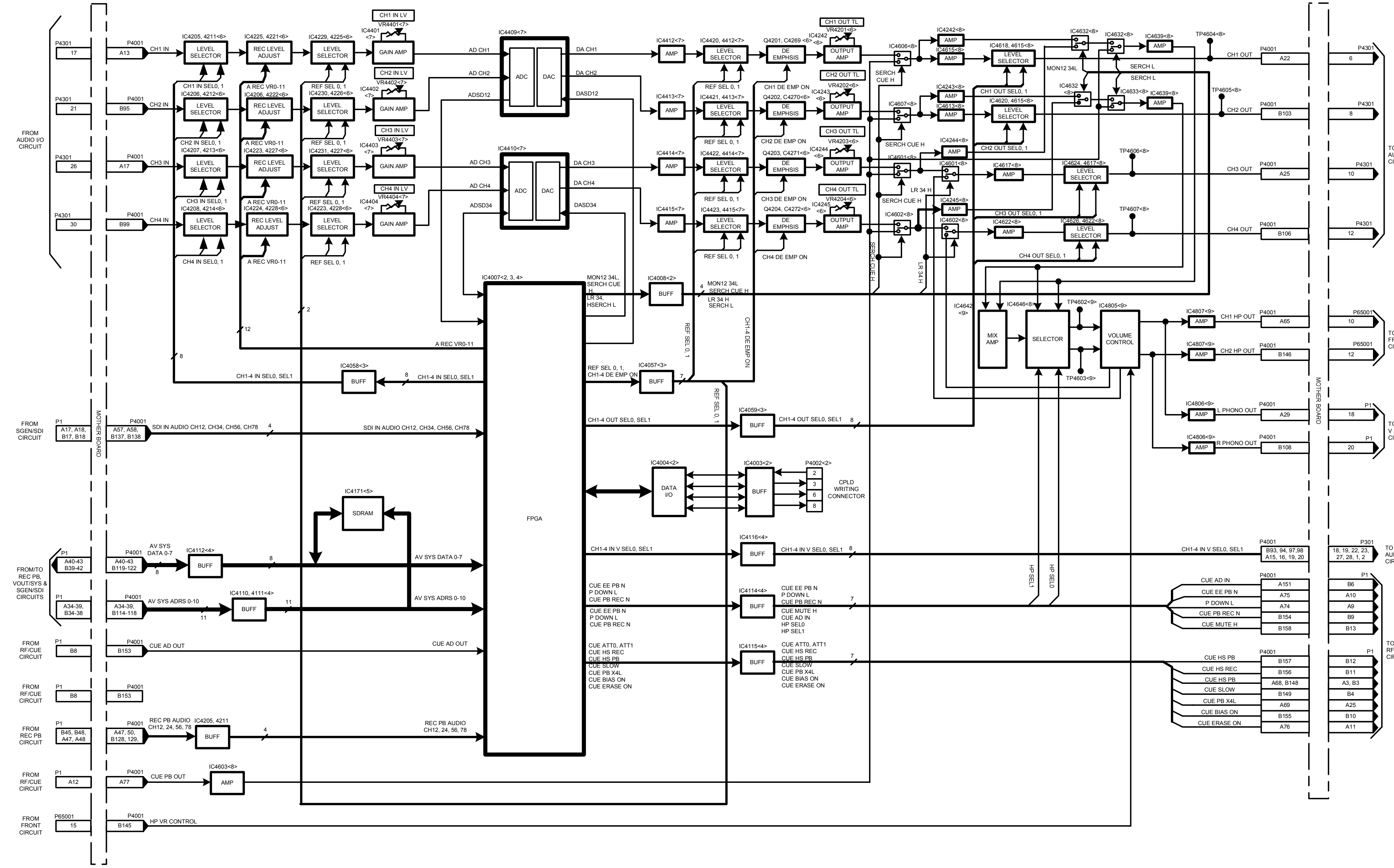


HD SDI IN (W/AUDIO)
HD SDI OUT1 (W/AUDIO)
HD SDI OUT2 (W/AUDIO)
SD SDI OUT1 (W/AUDIO)
SD SDI OUT1 (W/AUDIO)
SD SDI OUT1 (W/AUDIO)
SDI (AJ-YA120AG)
VCO
E Q
S/P
ACTIVE THRU
AUDIO DEC.
VIDEO
AUDIO
ROUNDING
CHANNEL LINK (TX)
CHANNEL LINK (RX)
VCO
DRIVE
P/S
AUDIO ENC.
VIDEO
HD MUTE
EE/ THRU
EE/VV
HD SYSH (FPGA)
AUDIO
AUDIO DLY
AUDIO
P/S W/T DRIVE
AUDIO ENC.
VIDEO
SD MUTE CHARA. ADD
SD SYSH (FPGA)
AUDIO ENC.
AUDIO ENC.
AUDIO ENC.
AUDIO ENC.
BUFFER
AUDIO ENC.
BUFFER
REC PB
CHANNEL LINK
SDI
INT SG
REC/EE
AV TIMING ADJ
REC/EE
IF LSI
HD PB
HD
SD
M/S MIX OR M THRU
PB
SD TBC
HD TBC
CHANNEL LINK (TX)
SDRAM
SDRAM
PREPRO 100
A,B
C,D
PREPRO 50
DRAM
DRAM
ROUNDING
COMP 100 A B
COMP 100 C D
A BUS
B BUS
C BUS
D BUS
MUX FPGA
A B C D
A B C D
DV MICROPROCESSOR
SDRAM
ECC 200
SEARCH
RF CTRL PLD (PB)
RF/ EQ
EQ
VIDEO HEADS
CTL ERASE
CUE ERASE
CUE REC OR PB
ERASE DRIVE
ERASE DRIVE
REC AMP
HEAD AMP
RF/CUE
REC EQ
D/A
BIAS OSC
PB EQ
A/D
Line Conv (AJ-YA120AG)
LC & UC PAVCAL LSI
IP LC PLD
HD Y,C
SDRAM
SDRAM
SDRAM
IEEE1394 (AJ-YAD120AG)
V LOCK PLL
SDRAM
1394 MICROPROCESSOR
X'TAL
FILTER
FPGA
SDRAM
COMP 100
BUS MUX
DUEL (LINK)
PHY
IEEE1394 CONNECTOR
V OUT
PB/B OUT
PR/R OUT
VIDEO OUT1/ YG OUT
VIDEO OUT2
BUFF
BUFF
BUFF
BUFF
BUFF
PB
PR
YG
CMPST
AMP
AMP
AMP
AMP
AMP
FILTER
FILTER
FILTER
FILTE R
BUFF
BUFF
BUFF
BUFF
AUX
LPF
VIDEO DAC, RGB CONV. & CMPST ENC.
HD FPGA
SD FPGA
SDRAM
CHARA GEN
IF FPGA
SDRAM
CHANNEL LINK (RX)
HD
SD
AUDIO IN (ANALOG)
APROC
P/S
DLY
DIG IN
S/P
ANA IN
VR
A/D
INT SG
INT SG.
SRC
S/P
MUTE
P/S
D/A
RAM
VCA
HP SEL
AUDIO OUT (ANALOG)
FRONT
DISPLAY
KEY I/F
VAR
VR
HEAD PHONES
TC IN
TC OUT
REMOTE
SYS-CON
BACK UP MEMORY
SYS/IF/AV MICROPROCESSOR
SERVO
CYL/CAP MICROPROCESSOR
REEL MICROPROCESSOR
REEL DRIVE
CYL DRIVE
CAP DRIVE
MOTOR DRIVE
SOL DRIVE
S REEL MOTOR
T REEL MOTOR
CAP MOTOR
CYL MOTOR
CTL REC/PB
LOAD. MOTOR
SOLENOIDS

RF BLOCK DIAGRAM

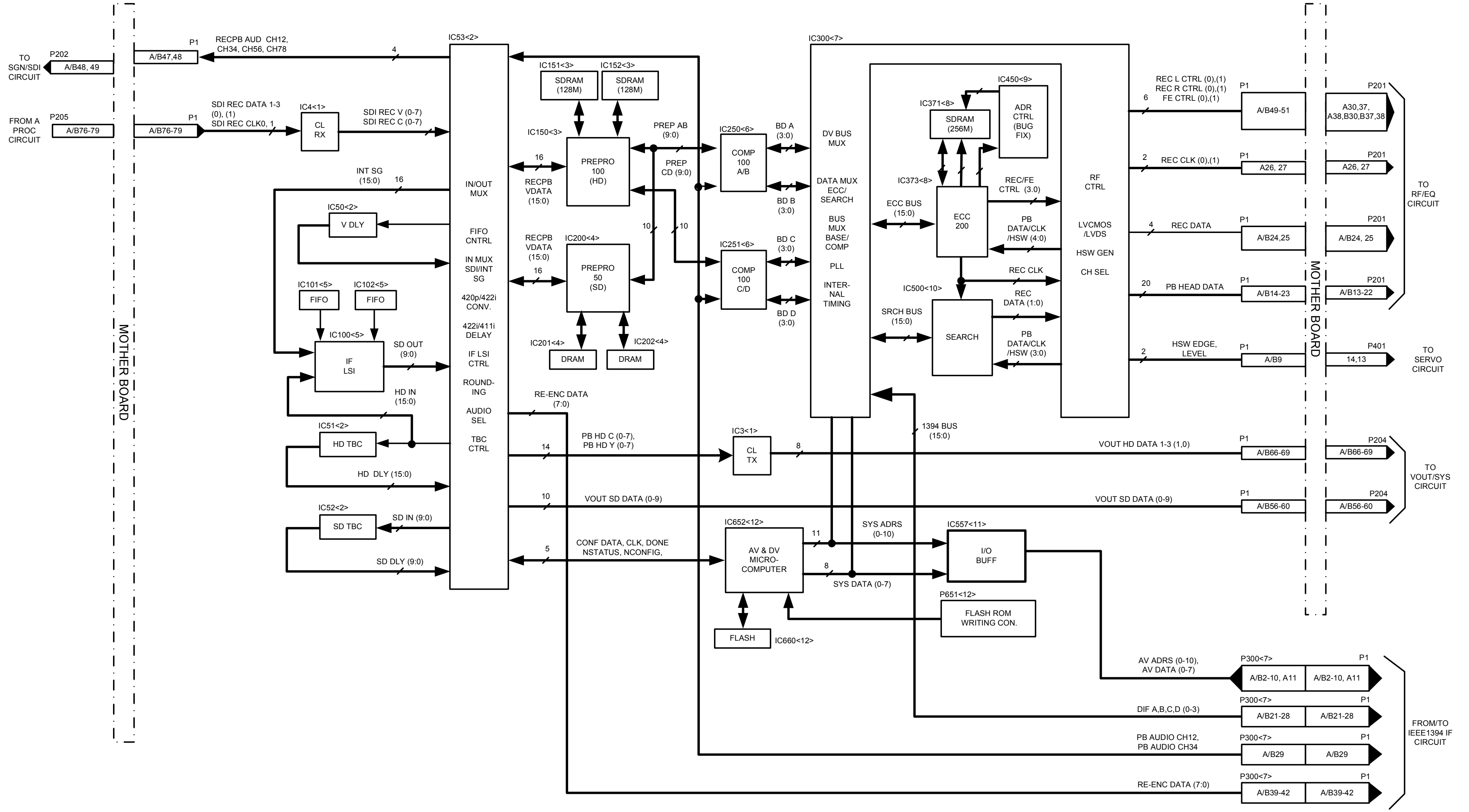

RF/CUE CIRCUIT
RF/EQ CIRCUIT
REC/PB CIRCUIT
SP_TR
(17um)
L1
L2
P4
5, 6
3, 4
SP L1
SP L2
Q173
Q103
Q108
Q112
IC461
HEAD AMP
IC462
BUFF AMP
HA TR L12
P1
A63, A64
A12, A13
IC601, 602
GAIN CNTRL
Q604, 605, C619, 622, 625, L601, 602
LPF AMP
Q761, 762, L761, C762
LPF AMP
IC1201
EQ
TR L12 DATA P/N
TR L12 CLK P/N
A13, A14
B13, B14
A14, A15
B14, B15
LP_REC
(12um)
P2
LP L1
LP L2
Q101, 102, 104, 105, 106, 115, 116, 117
REC AMP
Q178, Q182
Q171, 172, 174, 175, 176, 185, 186, 187
REC AMP
RA DATA L
A67, A68
A24, A25
FE
(21um)
1
2
10, 11
8, 9
FE 1
FE 2
Q560, 561
REC AMP
Q580, 581
REC AMP
FE1 LEVEL
FE2 LEVEL
B53
B54
A31
B31
IC201, Q201, 203, 205
FE CNTRL
IC201, Q202, 204, 206
FE CNTRL
FE CTRL 1
FE CNTRL 2
A30
B30
A49
B49
R1
R2
RP R1
RP R2
Q321, 322, 324, 326, 325, 335, 336, 337
REC AMP
Q251, 252, 254, 255, 256, 265, 266, 267
REC AMP
RA DATA R
B67, B68
B24, B25
IC204
LATCH
LATCH
IC202
REC CNTRL
REC DATA L N/P
REC DATA R N/P
A24, A25
B24, B25
MOTHER BOARD
MOTHER BOARD
PB
(15.5um)
L1
L3
P3
16, 17
14, 15
PB L1
PB L3
IC401
HEAD AMP
IC402
BUFF AMP
HA PB L13
B63, B64
A69, A70
IC501, 502
GAIN CNTRL
IC501, 502
BPF AMP
IC501, 502
LPF AMP
IC501, 502
IC801
EQ
PB L13 DATA P/N
PB L13 CLK P/N
A21, A22
B21, B22
A22, A23
B22, B23
R1
R3
21, 22
19, 20
PB R1
PB R3
IC501
HEAD AMP
IC502
BUFF AMP
HA PB R13
A61, A62
A66, A67
IC551, 552
GAIN CNTRL
IC501, 502
BPF AMP
Q701, 702, L701, C702
LPF AMP
IC501, 502
IC901
EQ
PB R13 DATA P/N
PB R13 CLK P/N
A19, A20
B19, B20
A20, A21
B20, B21
L2
L4
10, 11
8, 9
PB L2
PB L4
IC431
HEAD AMP
IC432
BUFF AMP
HA PB L24
B61, B62
B69, B70
IC501, 502
GAIN CNTRL
Q504, 505, C519, 522, 525, L501, 502
LPF AMP
IC1001
EQ
PB L24 DATA P/N
PB L24 CLK P/N
A17, A18
B17, B18
A18, A19
B18, B19
R2
R4
5, 6
3, 4
PB R2
PB R4
IC531
HEAD AMP
IC532
BUFF AMP
HA PB R24
A59, A60
B72, B73
IC551, 552
GAIN CNTRL
Q554, 555, C569, 572, 525, L551, 552
LPF AMP
Q731, 732, L731, C732
LPF AMP
IC1101
EQ
PB R24 DATA P/N
PB R24 CLK P/N
A15, A16
B15, B16
A15, A16
B15, B16

APROC BLOCK DIAGRAM

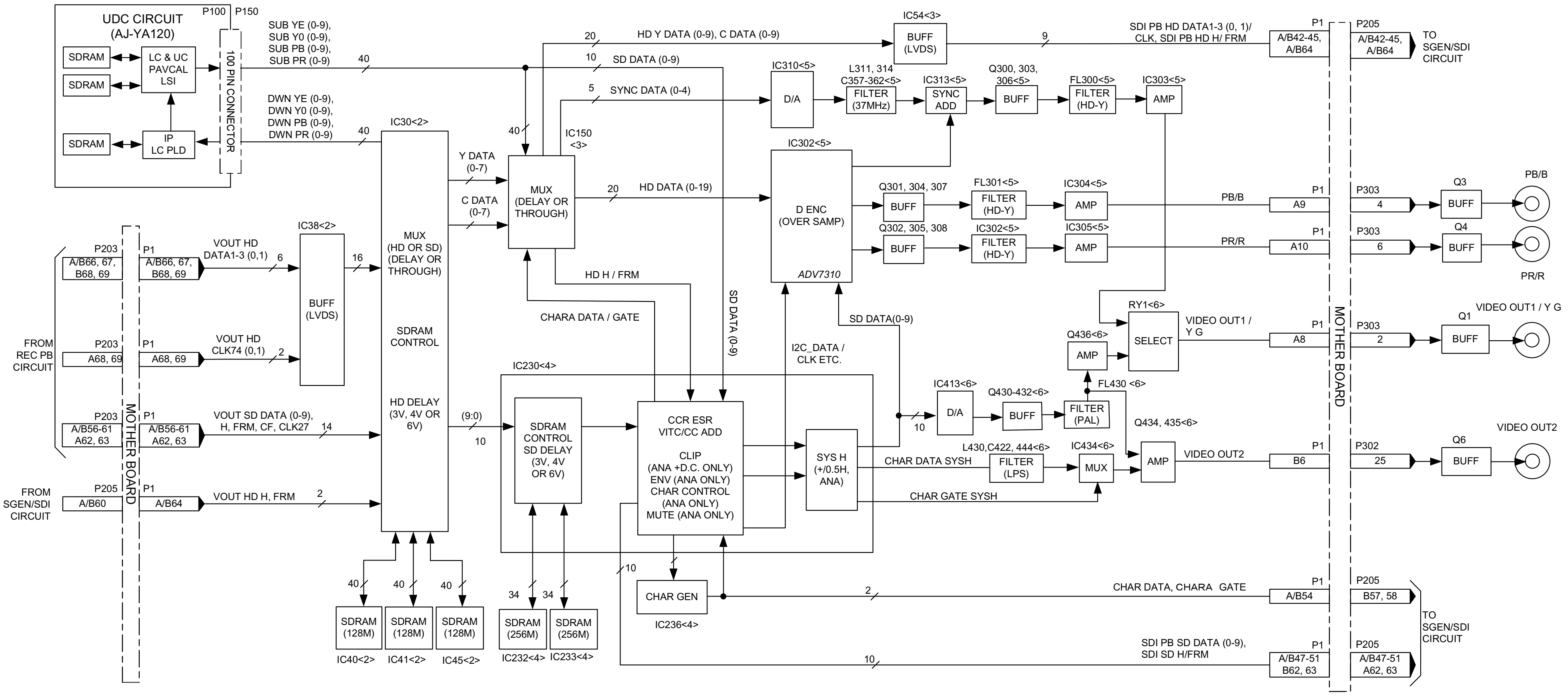


FROM AUDIO I/O CIRCUIT
P4301
17
21
26
30
MOTHER BOARD
P4001
A13
B95
A17
B99
CH1 IN
CH2 IN
CH3 IN
CH4 IN
IC4205, 4211<6>
IC4206, 4212<6>
IC4207, 4213<6>
IC4208, 4214<6>
LEVEL SELECTOR
CH1 IN SEL0, 1
CH2 IN SEL0, 1
CH3 IN SEL0, 1
CH4 IN SEL0, 1
IC4225, 4221<6>
IC4206, 4222<6>
IC4223, 4227<6>
IC4224, 4228<6>
REC LEVEL ADJUST
A REC VR0-11
IC4229, 4225<6>
IC4230, 4226<6>
IC4231, 4227<6>
IC4223, 4228<6>
REF SEL 0, 1
CH1 IN LV
CH2 IN LV
CH3 IN LV
CH4 IN LV
IC4401 <7>
IC4402 <7>
IC4403 <7>
IC4404 <7>
VR4401<7>
VR4402<7>
VR4403<7>
VR4404<7>
GAIN AMP
AD CH1
AD CH2
ADSD12
AD CH3
AD CH4
ADSD34
IC4409<7>
IC4410<7>
ADC
DAC
DA CH1
DA CH2
DASD12
DA CH3
DA CH4
DASD34
IC4412<7>
IC4413<7>
IC4414<7>
IC4415<7>
AMP
IC4420, 4412<7>
IC4421, 4413<7>
IC4422, 4414<7>
IC4423, 4415<7>
Q4201, C4269 <6>
Q4202, C4270<6>
Q4203, C4271<6>
Q4204, C4272<6>
DE EMPHSIS
CH1 DE EMP ON
CH2 DE EMP ON
CH3 DE EMP ON
CH4 DE EMP ON
CH1 OUT TL
CH2 OUT TL
CH3 OUT TL
CH4 OUT TL
IC4242 <6>
IC4243 <6>
IC4244 <6>
IC4245 <6>
VR4201<6>
VR4202<6>
VR4203<6>
VR4204<6>
OUTPUT AMP
IC4606<8>
IC4607<8>
IC4601<8>
IC4602<8>
SERCH CUE H
IC4242<8>
IC4615<8>
IC4243<8>
IC4613<8>
IC4244<8>
IC4601<8>
IC4245<8>
IC4602<8>
IC4618, 4615<8>
IC4620, 4615<8>
IC4617<8>
IC4622<8>
IC4624, 4617<8>
IC4626, 4622<8>
CH1 OUT SEL0, 1
CH2 OUT SEL0, 1
CH3 OUT SEL0, 1
CH4 OUT SEL0, 1
LR 34 H
MON12 34L
SERCH L
IC4632<8>
IC4633<8>
IC4639<8>
TP4604<8>
TP4605<8>
TP4606<8>
TP4607<8>
CH1 OUT
CH2 OUT
CH3 OUT
CH4 OUT
A22
B103
A25
B106
P4301
6
8
10
12
TO AUDIO I/O CIRCUIT
IC4007<2, 3, 4>
FPGA
MON12 34L, SERCH CUE H, LR 34, HSERCH L
IC4008<2>
BUFF
MON12 34L SERCH CUE H LR 34 H SERCH L
A REC VR0-11
REF SEL 0, 1
CH1-4 DE EMP ON
12
8
2
4
7
CH1-4 IN SEL0, SEL1
IC4058<3>
IC4057<3>
REF SEL 0, 1, CH1-4 DE EMP ON
IC4059<3>
CH1-4 OUT SEL0, SEL1
IC4642 <9>
MIX AMP
IC4646<8>
SELECTOR
TP4602<9>
TP4603<9>
IC4805<9>
VOLUME CONTROL
IC4807<9>
CH1 HP OUT
CH2 HP OUT
A65
B146
P65001
10
12
TO FRONT CIRCUIT
IC4806<9>
L PHONO OUT
R PHONO OUT
A29
B108
P1
18
20
TO V JACK CIRCUIT
FROM SGEN/SDI CIRCUIT
P1
A17, A18, B17, B18
A57, A58, B137, B138
SDI IN AUDIO CH12, CH34, CH56, CH78
IC4004<2>
DATA I/O
IC4003<2>
P4002<2>
2
3
6
8
CPLD WRITING CONNECTOR
IC4171<5>
SDRAM
FROM/TO REC PB, VOUT/SYS & SGEN/SDI CIRCUITS
A40-43 B39-42
A40-43 B119-122
AV SYS DATA 0-7
IC4112<4>
AV SYS ADRS 0-10
A34-39, B34-38
A34-39, B114-118
IC4110, 4111<4>
11
IC4116<4>
CH1-4 IN V SEL0, SEL1
B93, 94, 97,98 A15, 16, 19, 20
P301
18, 19, 22, 23, 27, 28, 1, 2
HP SEL1
HP SEL0
IC4114<4>
CUE EE PB N
P DOWN L
CUE PB REC N
CUE MUTE H
CUE AD IN
HP SEL0
HP SEL1
A151
A75
A74
B154
B158
B6
A10
A9
B9
B13
FROM RF/CUE CIRCUIT
B8
B153
CUE AD OUT
IC4115<4>
CUE ATT0, ATT1
CUE HS REC
CUE HS PB
CUE SLOW
CUE PB X4L
CUE BIAS ON
CUE ERASE ON
B157
B156
A68, B148
B149
A69
B155
A76
B12
B11
A3, B3
B4
A25
B10
A11
TO RF/CUE CIRCUIT
FROM REC PB CIRCUIT
B45, B48, A47, A48
A47, 50, B128, 129,
REC PB AUDIO CH12, 24, 56, 78
IC4205, 4211
A12
A77
CUE PB OUT
IC4603<8>
FROM FRONT CIRCUIT
P65001
15
B145
HP VR CONTROL

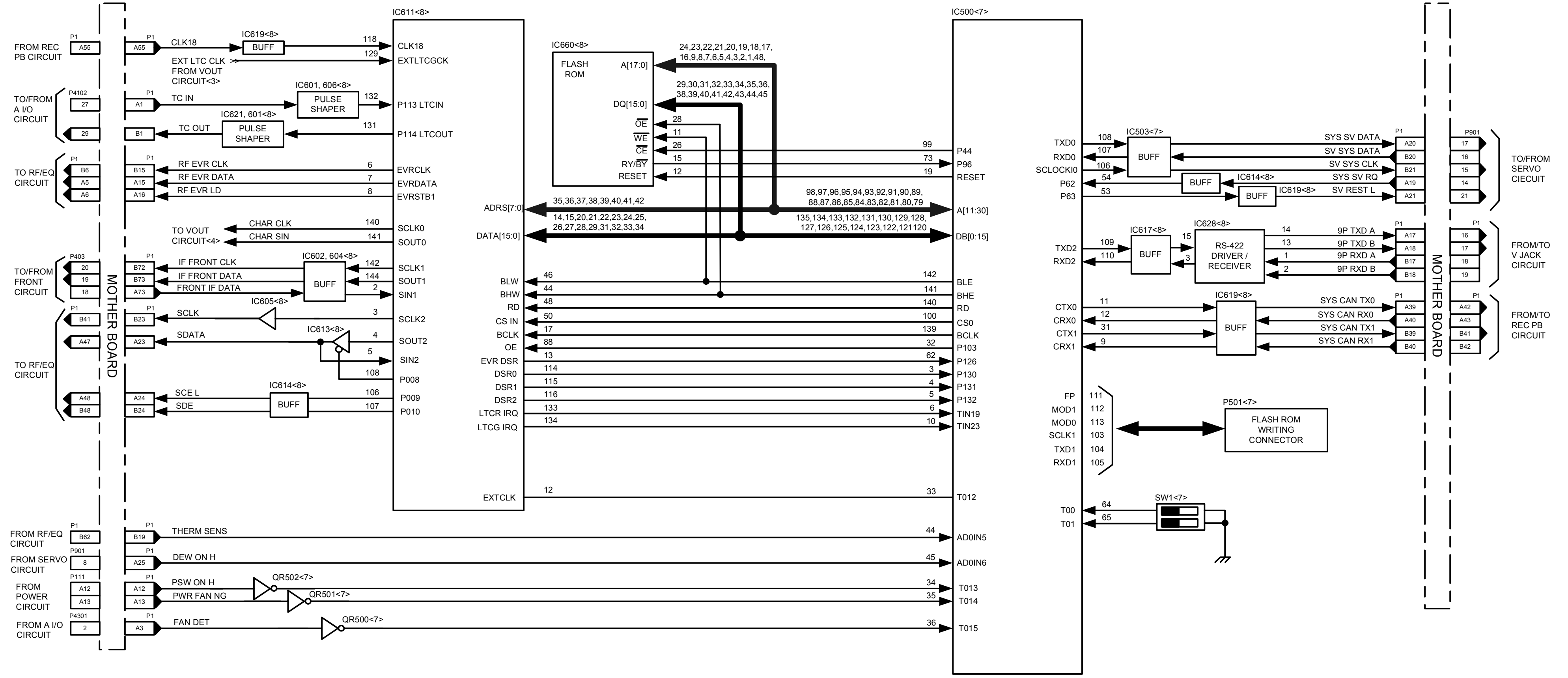
REC PB BLOCK DIAGRAM


TO
SGN/SDI
CIRCUIT
P202
A/B48, 49
FROM A
PROC
CIRCUIT
P205
A/B76-79
MOTHER BOARD
P1
A/B47,48
RECPB AUD CH12,
CH34, CH56, CH78
4
P1
A/B76-79
SDI REC DATA 1-3
(0), (1)
SDI REC CLK0, 1
IC4<1>
CL
RX
SDI REC V (0-7)
SDI REC C (0-7)
INT SG
(15:0)
16
IC50<2>
V DLY
IC101<5>
FIFO
IC102<5>
FIFO
IC100<5>
IF
LSI
SD OUT
(9:0)
HD IN
(15:0)
IC51<2>
HD TBC
HD DLY (15:0)
IC52<2>
SD TBC
SD IN (9:0)
SD DLY (9:0)
IC53<2>
IN/OUT
MUX
FIFO
CNTRL
IN MUX
SDI/INT
SG
420p/422i
CONV.
422i/411i
DELAY
IF LSI
CTRL
ROUND-
ING
AUDIO
SEL
TBC
CTRL
IC151<3>
SDRAM
(128M)
IC152<3>
SDRAM
(128M)
IC150<3>
16
RECPB
VDATA
(15:0)
PREPRO
100
(HD)
PREP AB
(9:0)
PREP
CD (9:0)
10
10
RECPB
VDATA
(15:0)
IC200<4>
16
PREPRO
50
(SD)
IC201<4>
DRAM
IC202<4>
DRAM
RE-ENC DATA
(7:0)
PB HD C (0-7),
PB HD Y (0-7)
14
10
VOUT SD DATA (0-9)
5
CONF DATA, CLK, DONE
NSTATUS, NCONFIG,
IC250<6>
COMP
100
A/B
BD A
(3:0)
BD B
(3:0)
IC251<6>
COMP
100
C/D
BD C
(3:0)
BD D
(3:0)
IC3<1>
CL
TX
8
IC652<12>
AV & DV
MICRO-
COMPUTER
11
8
SYS ADRS
(0-10)
SYS DATA (0-7)
FLASH
IC660<12>
IC557<11>
I/O
BUFF
P651<12>
FLASH ROM
WRITING CON.
IC300<7>
DV BUS
MUX
DATA MUX
ECC/
SEARCH
BUS
MUX
BASE/
COMP
PLL
INTER-
NAL
TIMING
1394 BUS
(15:0)
IC450<9>
ADR
CTRL
(BUG
FIX)
IC371<8>
SDRAM
(256M)
IC373<8>
ECC BUS
(15:0)
ECC
200
REC/FE
CTRL (3.0)
PB
DATA/CLK
/HSW (4:0)
REC CLK
IC500<10>
SRCH BUS
(15:0)
SEARCH
REC
DATA (1:0)
PB
DATA/CLK
/HSW (3:0)
RF
CTRL
LVCMOS
/LVDS
HSW GEN
CH SEL
REC L CTRL (0),(1)
REC R CTRL (0),(1)
FE CTRL (0),(1)
6
P1
A/B49-51
P201
A30,37,
A38,B30,B37,38
2
REC CLK (0),(1)
P1
A26, 27
P201
A26, 27
4
REC DATA
P1
A/B24,25
P201
A/B24, 25
20
PB HEAD DATA
P1
A/B14-23
P201
A/B13-22
2
HSW EDGE,
LEVEL
P1
A/B9
P401
14,13
TO
RF/EQ
CIRCUIT
TO
SERVO
CIRCUIT
MOTHER BOARD
VOUT HD DATA 1-3 (1,0)
P1
A/B66-69
P204
A/B66-69
VOUT SD DATA (0-9)
P1
A/B56-60
P204
A/B56-60
TO
VOUT/SYS
CIRCUIT
AV ADRS (0-10),
AV DATA (0-7)
P300<7>
A/B2-10, A11
P1
A/B2-10, A11
DIF A,B,C,D (0-3)
P300<7>
A/B21-28
P1
A/B21-28
PB AUDIO CH12,
PB AUDIO CH34
P300<7>
A/B29
P1
A/B29
RE-ENC DATA (7:0)
P300<7>
A/B39-42
P1
A/B39-42
FROM/TO
IEEE1394 IF
CIRCUIT

V OUT BLOCK DIAGRAM


UDC CIRCUIT
(AJ-YA120)
P100
P150
SDRAM
SDRAM
SDRAM
LC & UC
PAVCAL
LSI
IP
LC PLD
100 PIN CONNECTOR
SUB YE (0-9),
SUB Y0 (0-9),
SUB PB (0-9),
SUB PR (0-9)
40
DWN YE (0-9),
DWN Y0 (0-9),
DWN PB (0-9),
DWN PR (0-9)
40
20
HD Y DATA (0-9), C DATA (0-9)
10
SD DATA (0-9)
5
SYNC DATA (0-4)
IC54<3>
BUFF
(LVDS)
9
SDI PB HD DATA1-3 (0, 1)/
CLK, SDI PB HD H/ FRM
P1
A/B42-45,
A/B64
P205
A/B42-45,
A/B64
TO
SGEN/SDI
CIRCUIT
IC310<5>
D/A
L311, 314
C357-362<5>
FILTER
(37MHz)
IC313<5>
SYNC
ADD
Q300, 303,
306<5>
BUFF
FL300<5>
FILTER
(HD-Y)
IC303<5>
AMP
IC30<2>
40
IC150
<3>
Y DATA
(0-7)
C DATA
(0-7)
MUX
(DELAY OR
THROUGH)
20
HD DATA (0-19)
IC302<5>
D ENC
(OVER SAMP)
ADV7310
Q301, 304, 307
BUFF
FL301<5>
FILTER
(HD-Y)
IC304<5>
AMP
PB/B
P1
A9
P303
4
Q3
BUFF
PB/B
Q302, 305, 308
BUFF
IC302<5>
FILTER
(HD-Y)
IC305<5>
AMP
PR/R
P1
A10
P303
6
Q4
BUFF
PR/R
IC38<2>
BUFF
(LVDS)
16
MUX
(HD OR SD)
(DELAY OR
THROUGH)
SDRAM
CONTROL
HD DELAY
(3V, 4V OR
6V)
P203
A/B66, 67,
B68, 69
P1
A/B66, 67,
B68, 69
VOUT HD
DATA1-3 (0,1)
6
FROM
REC PB
CIRCUIT
P203
A68, 69
P1
A68, 69
VOUT HD
CLK74 (0,1)
2
P203
A/B56-61
A62, 63
P1
A/B56-61
A62, 63
VOUT SD DATA (0-9),
H, FRM, CF, CLK27
14
FROM
SGEN/SDI
CIRCUIT
P205
A/B60
P1
A/B64
VOUT HD H, FRM
2
MOTHER BOARD
HD H / FRM
CHARA DATA / GATE
SD DATA (0-9)
SD DATA(0-9)
I2C_DATA /
CLK ETC.
IC230<4>
(9:0)
10
SDRAM
CONTROL
SD DELAY
(3V, 4V
OR 6V)
CCR ESR
VITC/CC ADD
CLIP
(ANA +D.C. ONLY)
ENV (ANA ONLY)
CHAR CONTROL
(ANA ONLY)
MUTE (ANA ONLY)
SYS H
(+/0.5H,
ANA)
RY1<6>
SELECT
Q436<6>
AMP
VIDEO OUT1 /
Y G
P1
A8
P303
2
Q1
BUFF
VIDEO OUT1 / Y G
IC413<6>
D/A
10
Q430-432<6>
BUFF
FILTER
(PAL)
FL430 <6>
Q434, 435<6>
L430,C422, 444<6>
CHAR DATA SYSH
FILTER
(LPS)
IC434<6>
MUX
AMP
VIDEO OUT2
P1
B6
P302
25
Q6
BUFF
VIDEO OUT2
CHAR GATE SYSH
MOTHER BOARD
40
40
40
SDRAM
(128M)
SDRAM
(128M)
SDRAM
(128M)
IC40<2>
IC41<2>
IC45<2>
34
34
SDRAM
(256M)
SDRAM
(256M)
IC232<4>
IC233<4>
10
CHAR GEN
IC236<4>
2
CHAR DATA, CHARA GATE
P1
A/B54
P205
B57, 58
TO
SGEN/SDI
CIRCUIT
SDI PB SD DATA (0-9),
SDI SD H/FRM
10
P1
A/B47-51
B62, 63
P205
A/B47-51
A62, 63

SYS CONTROL BLOCK DIAGRAM


FROM REC
PB CIRCUIT
P1
A55
CLK18
IC619<8>
BUFF
118
CLK18
129
EXTLTCGCK
EXT LTC CLK
FROM VOUT
CIRCUIT<3>
TO/FROM
A I/O
CIRCUIT
P4102
27
29
A1
B1
TC IN
IC601, 606<8>
PULSE
SHAPER
132
P113 LTCIN
TC OUT
IC621, 601<8>
PULSE
SHAPER
131
P114 LTCOUT
TO RF/EQ
CIRCUIT
B6
A5
A6
B15
A15
A16
RF EVR CLK
6
EVRCLK
RF EVR DATA
7
EVRDATA
RF EVR LD
8
EVRSTB1
TO VOUT
CIRCUIT<4>
CHAR CLK
140
SCLK0
CHAR SIN
141
SOUT0
TO/FROM
FRONT
CIRCUIT
P403
20
19
18
B72
B73
A73
IF FRONT CLK
IF FRONT DATA
FRONT IF DATA
IC602, 604<8>
BUFF
142
SCLK1
144
SOUT1
2
SIN1
TO RF/EQ
CIRCUIT
B41
A47
A48
B48
B23
A23
A24
B24
SCLK
IC605<8>
3
SCLK2
SDATA
IC613<8>
4
SOUT2
5
SIN2
108
P008
SCE L
SDE
IC614<8>
BUFF
106
P009
107
P010
MOTHER BOARD
IC611<8>
ADRS[7:0]
DATA[15:0]
BLW
BHW
RD
CS IN
BCLK
OE
EVR DSR
DSR0
DSR1
DSR2
LTCR IRQ
LTCG IRQ
EXTCLK
IC660<8>
FLASH
ROM
A[17:0]
DQ[15:0]
$\overline{\mathrm{OE}}$
$\overline{\mathrm{WE}}$
$\overline{\mathrm{CE}}$
RY/$\overline{\mathrm{BY}}$
RESET
24,23,22,21,20,19,18,17,
16,9,8,7,6,5,4,3,2,1,48,
29,30,31,32,33,34,35,36,
38,39,40,41,42,43,44,45
28
11
26
15
12
99
P44
73
P96
19
RESET
35,36,37,38,39,40,41,42
98,97,96,95,94,93,92,91,90,89,
88,87,86,85,84,83,82,81,80,79
A[11:30]
14,15,20,21,22,23,24,25,
26,27,28,29,31,32,33,34
135,134,133,132,131,130,129,128,
127,126,125,124,123,122,121120
DB[0:15]
46
142
BLE
44
141
BHE
48
140
RD
50
100
CS0
17
139
BCLK
88
32
P103
13
62
P126
114
3
P130
115
4
P131
116
5
P132
133
6
TIN19
134
10
TIN23
12
33
T012
IC500<7>
FROM RF/EQ
CIRCUIT
P1
B62
B19
THERM SENS
44
AD0IN5
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CIRCUIT
P901
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A25
DEW ON H
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AD0IN6
FROM
POWER
CIRCUIT
P111
A12
A13
PSW ON H
QR502<7>
34
T013
PWR FAN NG
QR501<7>
35
T014
FROM A I/O
CIRCUIT
P4301
2
A3
FAN DET
QR500<7>
36
T015
TXD0
108
RXD0
107
SCLOCKI0
106
P62
54
P63
53
IC503<7>
BUFF
IC614<8>
BUFF
IC619<8>
BUFF
SYS SV DATA
SV SYS DATA
SV SYS CLK
SYS SV RQ
SV REST L
A20
B20
B21
A19
A21
P901
17
16
15
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21
TO/FROM
SERVO
CIECUIT
TXD2
109
RXD2
110
IC617<8>
BUFF
15
3
IC628<8>
RS-422
DRIVER /
RECEIVER
14
9P TXD A
13
9P TXD B
1
9P RXD A
2
9P RXD B
A17
A18
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B18
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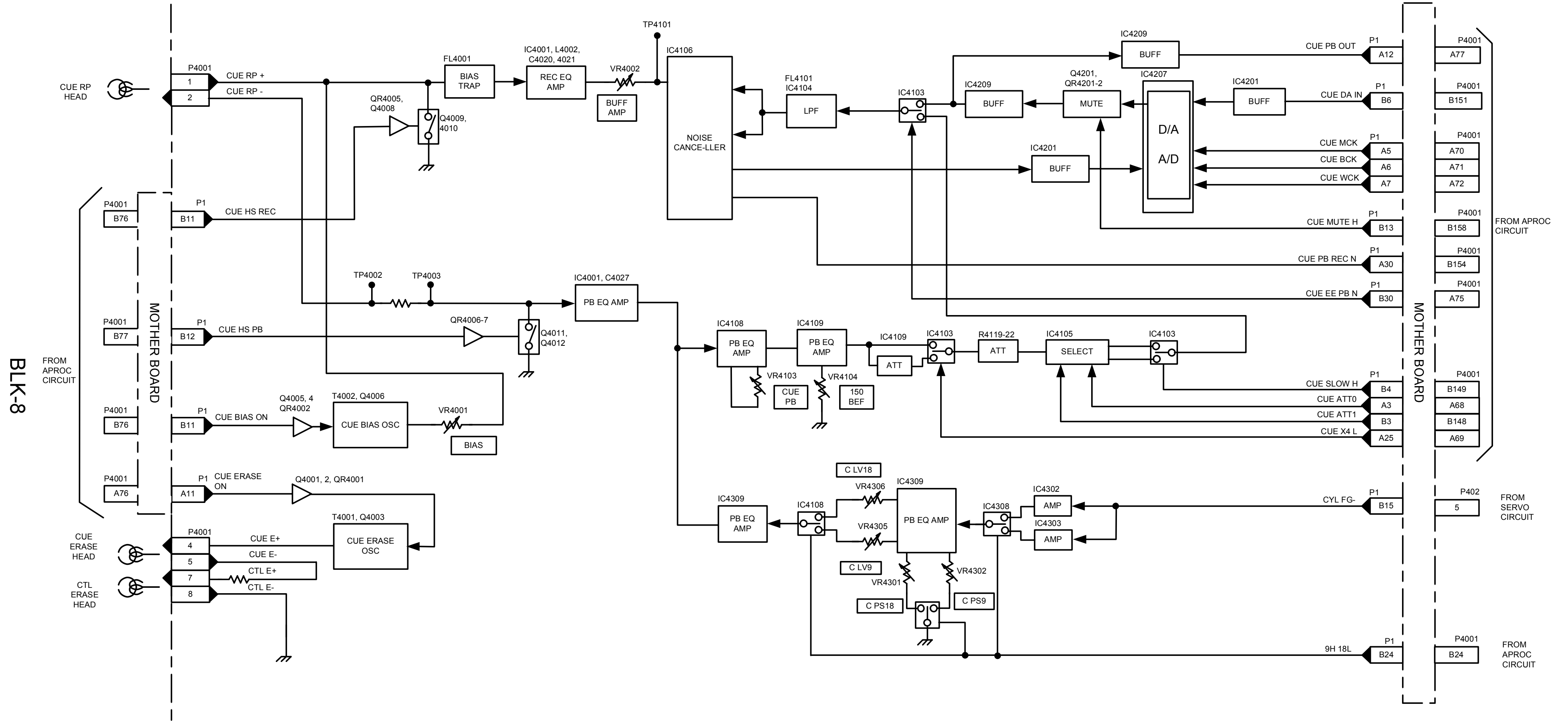
17
18
19
FROM/TO
V JACK
CIRCUIT
CTX0
11
CRX0
12
CTX1
31
CRX1
9
IC619<8>
BUFF
SYS CAN TX0
SYS CAN RX0
SYS CAN TX1
SYS CAN RX1
A39
A40
B39
B40
A42
A43
B41
B42
FROM/TO
REC PB
CIRCUIT
FP
111
MOD1
112
MOD0
113
SCLK1
103
TXD1
104
RXD1
105
P501<7>
FLASH ROM
WRITING
CONNECTOR
T00
64
T01
65
SW1<7>
MOTHER BOARD

CUE AUDIO BLOCK DIAGRAM



BLK-8
CUE RP HEAD
CUE ERASE HEAD
CTL ERASE HEAD
FROM APROC CIRCUIT
MOTHER BOARD
P4001
B76
B77
B76
A76
P1
B11
B12
B11
A11
1
2
4
5
7
8
CUE RP +
CUE RP -
CUE HS REC
CUE HS PB
CUE BIAS ON
CUE ERASE ON
CUE E+
CUE E-
CTL E+
CTL E-
QR4005, Q4008
Q4009, 4010
FL4001
BIAS TRAP
IC4001, L4002, C4020, 4021
REC EQ AMP
VR4002
BUFF AMP
TP4101
IC4106
NOISE CANCE-LLER
FL4101 IC4104
LPF
IC4103
IC4209
BUFF
Q4201, QR4201-2
MUTE
IC4207
D/A
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IC4201
BUFF
TP4002
TP4003
IC4001, C4027
PB EQ AMP
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Q4011, Q4012
Q4005, 4 QR4002
T4002, Q4006
CUE BIAS OSC
VR4001
BIAS
Q4001, 2, QR4001
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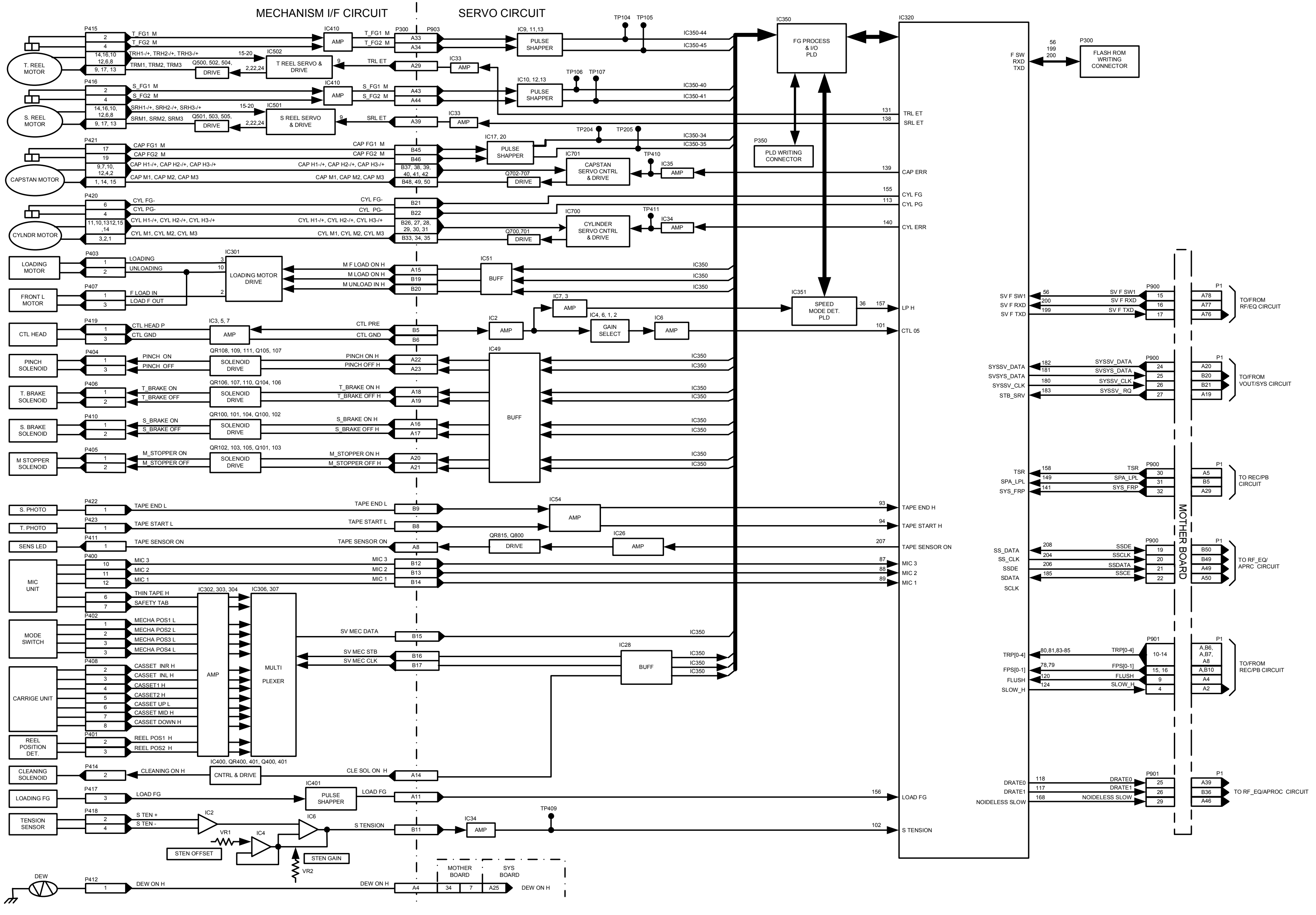
CUE ERASE OSC
IC4108
PB EQ AMP
IC4109
PB EQ AMP
VR4103
CUE PB
VR4104
150 BEF
IC4109
ATT
IC4103
R4119-22
ATT
IC4105
SELECT
IC4103
IC4309
PB EQ AMP
IC4108
C LV18
VR4306
VR4305
IC4309
PB EQ AMP
C LV9
VR4301
VR4302
C PS18
C PS9
IC4308
IC4302
AMP
IC4303
AMP
CUE PB OUT
CUE DA IN
CUE MCK
CUE BCK
CUE WCK
CUE MUTE H
CUE PB REC N
CUE EE PB N
CUE SLOW H
CUE ATT0
CUE ATT1
CUE X4 L
CYL FG-
9H 18L
P1
A12
B6
A5
A6
A7
B13
A30
B30
B4
A3
B3
A25
B15
B24
P4001
A77
B151
A70
A71
A72
B158
B154
A75
B149
A68
B148
A69
P402
5
B24
FROM APROC CIRCUIT
FROM SERVO CIRCUIT
FROM APROC CIRCUIT
MOTHER BOARD

SERVO BLOCK DIAGRAM



MECHANISM I/F CIRCUIT
SERVO CIRCUIT
T. REEL MOTOR
S. REEL MOTOR
CAPSTAN MOTOR
CYLNDR MOTOR
LOADING MOTOR
FRONT L MOTOR
CTL HEAD
PINCH SOLENOID
T. BRAKE SOLENOID
S. BRAKE SOLENOID
M STOPPER SOLENOID
S. PHOTO
T. PHOTO
SENS LED
MIC UNIT
MODE SWITCH
CARRIGE UNIT
REEL POSITION DET.
CLEANING SOLENOID
LOADING FG
TENSION SENSOR
DEW
P415
P416
P421
P420
P403
P407
P419
P404
P406
P410
P405
P422
P423
P411
P400
P402
P408
P401
P414
P417
P418
P412
T_FG1 M
T_FG2 M
TRH1-/+, TRH2-/+, TRH3-/+
TRM1, TRM2, TRM3
S_FG1 M
S_FG2 M
SRH1-/+, SRH2-/+, SRH3-/+
SRM1, SRM2, SRM3
CAP FG1 M
CAP FG2 M
CAP H1-/+, CAP H2-/+, CAP H3-/+
CAP M1, CAP M2, CAP M3
CYL FG-
CYL PG-
CYL H1-/+, CYL H2-/+, CYL H3-/+
CYL M1, CYL M2, CYL M3
LOADING
UNLOADING
F LOAD IN
LOAD F OUT
CTL HEAD P
CTL GND
PINCH ON
PINCH OFF
T_BRAKE ON
T_BRAKE OFF
S_BRAKE ON
S_BRAKE OFF
M_STOPPER ON
M_STOPPER OFF
TAPE END L
TAPE START L
TAPE SENSOR ON
MIC 3
MIC 2
MIC 1
THIN TAPE H
SAFETY TAB
MECHA POS1 L
MECHA POS2 L
MECHA POS3 L
MECHA POS4 L
CASSET INR H
CASSET INL H
CASSET1 H
CASSET2 H
CASSET UP L
CASSET MID H
CASSET DOWN H
REEL POS1 H
REEL POS2 H
CLEANING ON H
LOAD FG
S TEN +
S TEN -
DEW ON H
IC410 AMP
IC502 T REEL SERVO & DRIVE
IC501 S REEL SERVO & DRIVE
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Q501, 503, 505, DRIVE
IC301 LOADING MOTOR DRIVE
IC3, 5, 7 AMP
QR108, 109, 111, Q105, 107 SOLENOID DRIVE
QR106, 107, 110, Q104, 106 SOLENOID DRIVE
QR100, 101, 104, Q100, 102 SOLENOID DRIVE
QR102, 103, 105, Q101, 103 SOLENOID DRIVE
IC302, 303, 304 AMP
IC306, 307 MULTI PLEXER
IC400, QR400, 401, Q400, 401 CNTRL & DRIVE
IC401 PULSE SHAPPER
IC2
IC4
IC6
VR1
VR2
STEN OFFSET
STEN GAIN
P300
P903
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A34
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A43
A44
A39
B45
B46
B37, 38, 39, 40, 41, 42
B48, 49, 50
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B26, 27, 28, 29, 30, 31
B33, 34, 35
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B19
B20
B5
B6
A22
A23
A18
A19
A16
A17
A20
A21
B9
B8
A8
B12
B13
B14
B15
B16
B17
A14
A11
B11
A4
TRL ET
SRL ET
M F LOAD ON H
M LOAD ON H
M UNLOAD IN H
CTL PRE
PINCH ON H
PINCH OFF H
T_BRAKE ON H
T_BRAKE OFF H
S_BRAKE ON H
S_BRAKE OFF H
M_STOPPER ON H
M_STOPPER OFF H
SV MEC DATA
SV MEC STB
SV MEC CLK
CLE SOL ON H
S TENSION
MOTHER BOARD
SYS BOARD
A25
IC9, 11, 13 PULSE SHAPPER
IC10, 12, 13 PULSE SHAPPER
IC17, 20 PULSE SHAPPER
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IC701 CAPSTAN SERVO CNTRL & DRIVE
IC700 CYLINDER SERVO CNTRL & DRIVE
Q702-707 DRIVE
Q700,701 DRIVE
IC35 AMP
IC34 AMP
IC51 BUFF
IC7, 3 AMP
IC2 AMP
IC4, 6, 1, 2 GAIN SELECT
IC6 AMP
IC49 BUFF
IC54 AMP
QR815, Q800 DRIVE
IC26 AMP
IC28 BUFF
IC34 AMP
TP104
TP105
TP106
TP107
TP204
TP205
TP410
TP411
TP409
IC350-44
IC350-45
IC350-40
IC350-41
IC350-34
IC350-35
IC350
IC350 FG PROCESS & I/O PLD
P350 PLD WRITING CONNECTOR
IC351 SPEED MODE DET. PLD
IC320
P300 FLASH ROM WRITING CONNECTOR
F SW
RXD
TXD
56
199
200
131 TRL ET
138 SRL ET
139 CAP ERR
155 CYL FG
113 CYL PG
140 CYL ERR
36
157 LP H
101 CTL 05
93 TAPE END H
94 TAPE START H
207 TAPE SENSOR ON
87 MIC 3
88 MIC 2
89 MIC 1
156 LOAD FG
102 S TENSION
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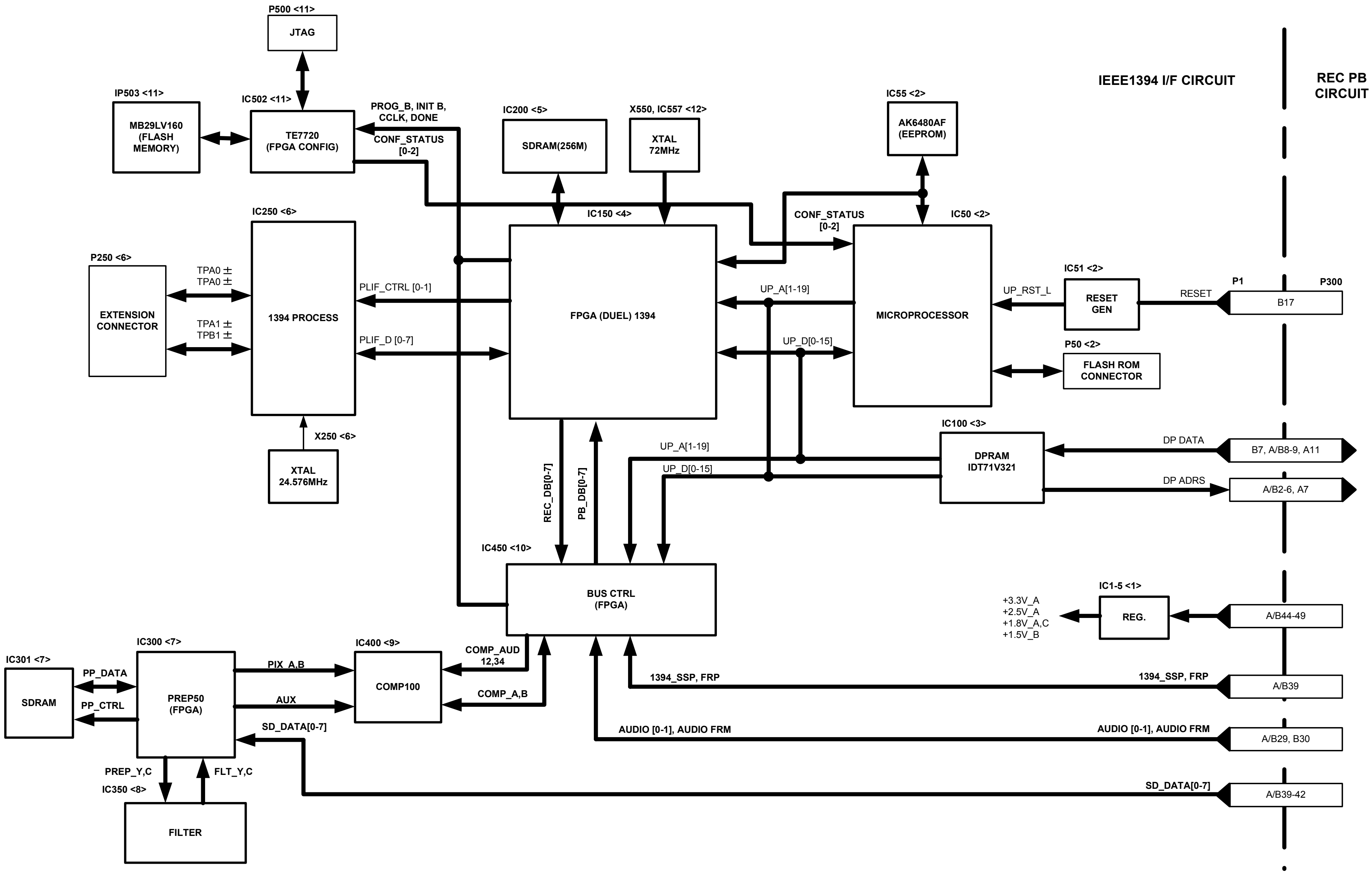
SV F TXD
SYSSV_DATA
SVSYS_DATA
SYSSV_CLK
STB_SRV
SYSSV_RQ
TSR
SPA_LPL
SYS_FRP
SS_DATA
SS_CLK
SSDE
SDATA
SCLK
SSCLK
SSDATA
SSCE
TRP[0-4]
FPS[0-1]
FLUSH
SLOW_H
80,81,83-85
78,79
DRATE0
DRATE1
NOIDELESS SLOW
P900
P901
P1
A78
A77
A76
A20
B20
B21
A19
A5
B5
A29
B50
B49
A49
A50
A,B6, A,B7, A8
A,B10
A4
A2
A39
B36
A46
TO/FROM RF/EQ CIRCUIT
TO/FROM VOUT/SYS CIRCUIT
TO REC/PB CIRCUIT
TO RF_EQ/ APRC CIRCUIT
TO/FROM REC/PB CIRCUIT
TO RF_EQ/APROC CIRCUIT
MOTHER BOARD

IEEE1394 I/F (AJ-YAD120AG) BLOCK DIAGRAM


P500 <11>
JTAG
IP503 <11>
MB29LV160
(FLASH
MEMORY)
IC502 <11>
TE7720
(FPGA CONFIG)
PROG_B, INIT B,
CCLK, DONE
CONF_STATUS
[0-2]
IC200 <5>
SDRAM(256M)
X550, IC557 <12>
XTAL
72MHz
IC55 <2>
AK6480AF
(EEPROM)
IEEE1394 I/F CIRCUIT
REC PB
CIRCUIT
IC250 <6>
1394 PROCESS
P250 <6>
EXTENSION
CONNECTOR
TPA0 ±
TPA0 ±
TPA1 ±
TPB1 ±
PLIF_CTRL [0-1]
PLIF_D [0-7]
IC150 <4>
FPGA (DUEL) 1394
CONF_STATUS
[0-2]
IC50 <2>
MICROPROCESSOR
UP_A[1-19]
UP_D[0-15]
IC51 <2>
RESET
GEN
UP_RST_L
RESET
P1
P300
B17
P50 <2>
FLASH ROM
CONNECTOR
X250 <6>
XTAL
24.576MHz
REC_DB[0-7]
PB_DB[0-7]
UP_A[1-19]
UP_D[0-15]
IC100 <3>
DPRAM
IDT71V321
DP DATA
B7, A/B8-9, A11
DP ADRS
A/B2-6, A7
IC450 <10>
BUS CTRL
(FPGA)
IC1-5 <1>
REG.
+3.3V_A
+2.5V_A
+1.8V_A,C
+1.5V_B
A/B44-49
IC300 <7>
IC400 <9>
IC301 <7>
SDRAM
PP_DATA
PP_CTRL
PREP50
(FPGA)
PIX_A,B
AUX
COMP100
COMP_AUD
12,34
COMP_A,B
SD_DATA[0-7]
1394_SSP, FRP
1394_SSP, FRP
A/B39
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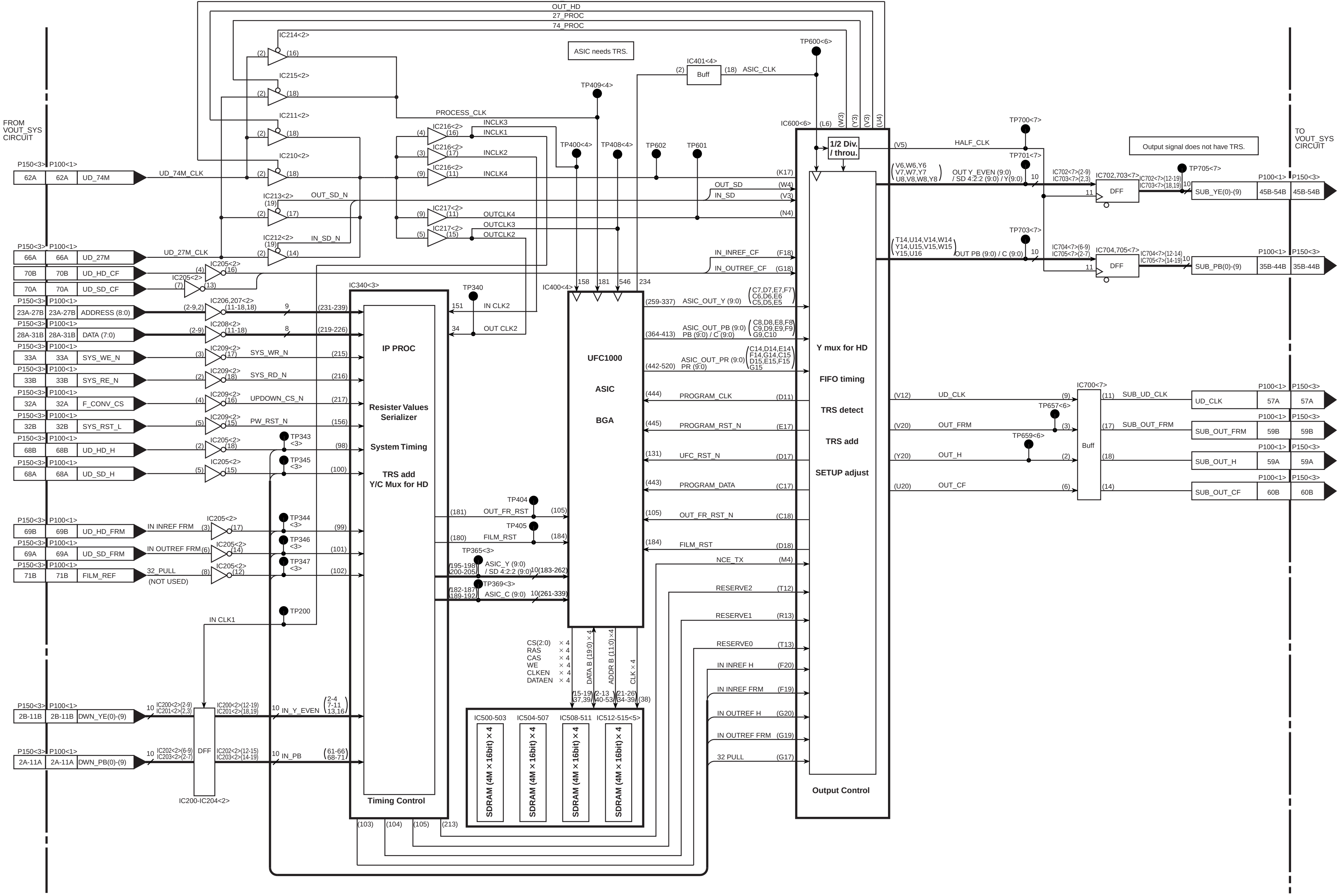
AUDIO [0-1], AUDIO FRM
A/B29, B30
PREP_Y,C
FLT_Y,C
IC350 <8>
FILTER
SD_DATA[0-7]
A/B39-42

UDC (AJ-YA120AG) BLOCK DIAGRAM


IN_HD
OUT_HD
27_PROC
74_PROC
IC214<2>
IC215<2>
IC211<2>
IC210<2>
IC213<2>
IC212<2>
ASIC needs TRS.
IC401<4>
Buff
ASIC_CLK
TP600<6>
TP409<4>
PROCESS_CLK
IC216<2>
INCLK3
INCLK1
INCLK2
INCLK4
IC217<2>
OUTCLK4
OUTCLK3
OUTCLK2
TP400<4>
TP408<4>
TP602
TP601
IC600<6>
1/2 Div.
/ throu.
HALF_CLK
TP700<7>
TP701<7>
TP703<7>
TP705<7>
Output signal does not have TRS.
FROM VOUT_SYS CIRCUIT
TO VOUT_SYS CIRCUIT
P150<3>
P100<1>
62A
UD_74M
UD_74M_CLK
OUT_SD_N
IN_SD_N
OUT_SD
IN_SD
66A
UD_27M
UD_27M_CLK
70B
UD_HD_CF
70A
UD_SD_CF
IC205<2>
IN_INREF_CF
IN_OUTREF_CF
OUT Y_EVEN (9:0) / SD 4:2:2 (9:0) / Y (9:0)
OUT PB (9:0) / C (9:0)
IC702,703<7>
IC704,705<7>
DFF
SUB_YE(0)-(9)
45B-54B
SUB_PB(0)-(9)
35B-44B
IC340<3>
TP340
IN CLK2
OUT CLK2
IC400<4>
23A-27B
ADDRESS (8:0)
IC206,207<2>
28A-31B
DATA (7:0)
IC208<2>
33A
SYS_WE_N
SYS_WR_N
IC209<2>
33B
SYS_RE_N
SYS_RD_N
32A
F_CONV_CS
UPDOWN_CS_N
32B
SYS_RST_L
PW_RST_N
68B
UD_HD_H
68A
UD_SD_H
TP343<3>
TP345<3>
IP PROC
Resister Values Serializer
System Timing
TRS add Y/C Mux for HD
Timing Control
UFC1000
ASIC
BGA
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ASIC_OUT_PB (9:0) PB (9:0) / C (9:0)
ASIC_OUT_PR (9:0) PR (9:0)
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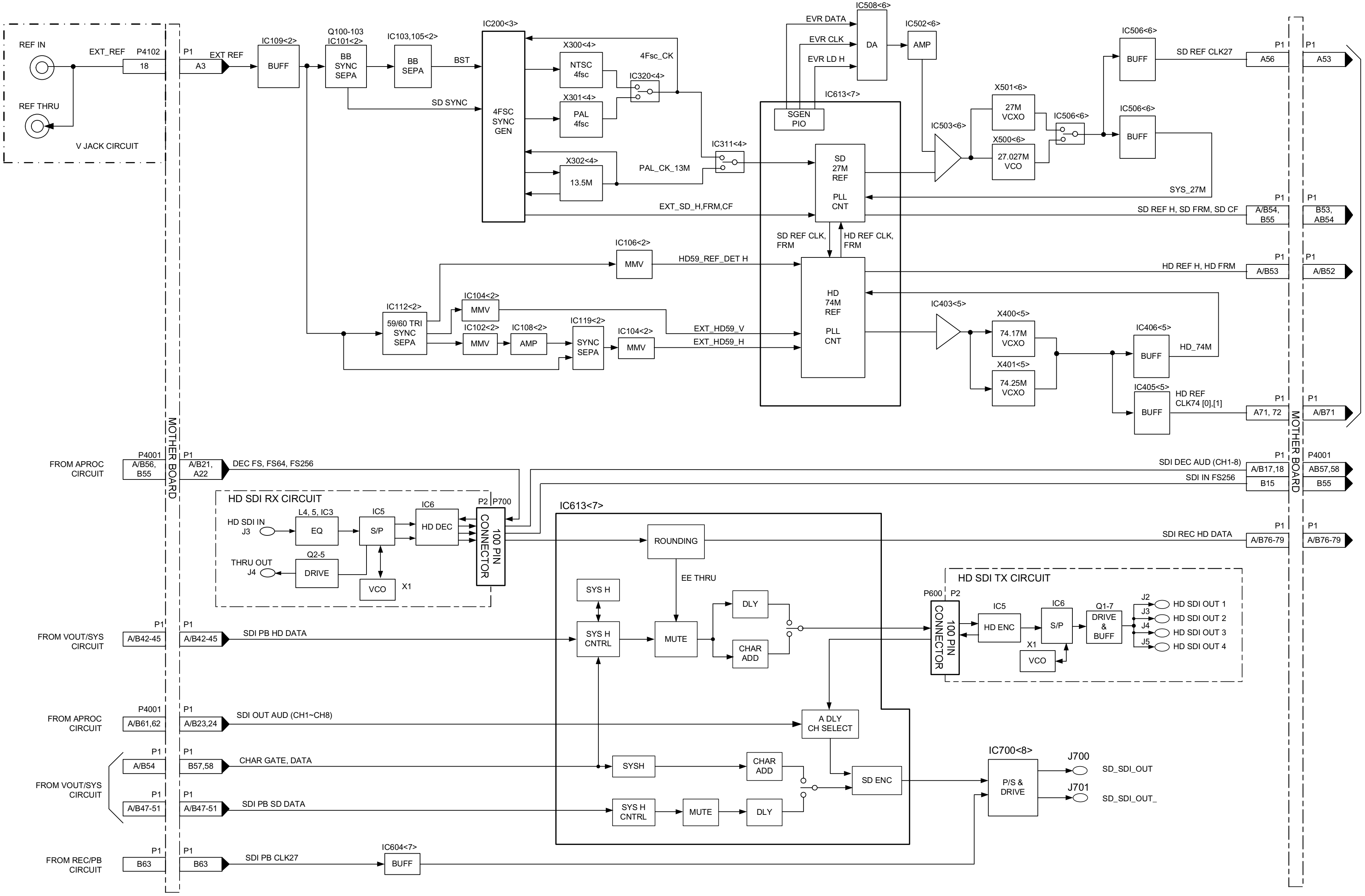
PROGRAM_RST_N
UFC_RST_N
PROGRAM_DATA
OUT_FR_RST_N
FILM_RST
NCE_TX
RESERVE2
RESERVE1
RESERVE0
IN INREF H
IN INREF FRM
IN OUTREF H
IN OUTREF FRM
32 PULL
Y mux for HD
FIFO timing
TRS detect
TRS add
SETUP adjust
Output Control
IC700<7>
Buff
UD_CLK
SUB_UD_CLK
57A
OUT_FRM
SUB_OUT_FRM
59B
OUT_H
SUB_OUT_H
59A
OUT_CF
SUB_OUT_CF
60B
TP657<6>
TP659<6>
TP404
TP405
OUT_FR_RST
FILM_RST
TP365<3>
ASIC_Y (9:0) / SD 4:2:2 (9:0)
TP369<3>
ASIC_C (9:0)
69B
UD_HD_FRM
IN INREF FRM
TP344<3>
69A
UD_SD_FRM
IN OUTREF FRM
TP346<3>
71B
FILM_REF
32_PULL
(NOT USED)
TP347<3>
TP200
IN CLK1
CS(2:0) × 4
RAS × 4
CAS × 4
WE × 4
CLKEN × 4
DATAEN × 4
DATA B (19:0) × 4
ADDR B (11:0) × 4
CLK × 4
IC500-503
IC504-507
IC508-511
IC512-515<5>
SDRAM (4M × 16bit) × 4
2B-11B
DWN_YE(0)-(9)
IN_Y_EVEN
2A-11A
DWN_PB(0)-(9)
IN_PB
IC200-IC204<2>
DFF

SGEN/SDI (AJ-YA120AG) BLOCK DIAGRAM


REF IN
REF THRU
V JACK CIRCUIT
EXT_REF
P4102
18
P1
EXT REF
A3
IC109<2>
BUFF
Q100-103
IC101<2>
BB SYNC SEPA
IC103,105<2>
BB SEPA
BST
SD SYNC
IC200<3>
4FSC SYNC GEN
X300<4>
NTSC 4fsc
X301<4>
PAL 4fsc
4Fsc_CK
IC320<4>
X302<4>
13.5M
PAL_CK_13M
IC311<4>
EXT_SD_H,FRM,CF
EVR DATA
EVR CLK
EVR LD H
IC508<6>
DA
IC502<6>
AMP
IC613<7>
SGEN PIO
SD 27M REF
PLL CNT
IC503<6>
X501<6>
27M VCXO
X500<6>
27.027M VCO
IC506<6>
BUFF
SD REF CLK27
SYS_27M
SD REF H, SD FRM, SD CF
SD REF CLK, FRM
HD REF CLK, FRM
IC106<2>
MMV
HD59_REF_DET H
HD REF H, HD FRM
HD 74M REF
PLL CNT
IC112<2>
59/60 TRI SYNC SEPA
IC104<2>
MMV
IC102<2>
MMV
IC108<2>
AMP
IC119<2>
SYNC SEPA
EXT_HD59_V
EXT_HD59_H
IC403<5>
X400<5>
74.17M VCXO
X401<5>
74.25M VCXO
IC406<5>
BUFF
HD_74M
IC405<5>
HD REF CLK74 [0],[1]
P1
A56
A53
A/B54, B55
B53, AB54
A/B53
A/B52
A71, 72
A/B71
TO REC/PB CIRCUIT
MOTHER BOARD
FROM APROC CIRCUIT
P4001
A/B56, B55
A/B21, A22
DEC FS, FS64, FS256
SDI DEC AUD (CH1-8)
SDI IN FS256
A/B17,18
AB57,58
B15
B55
TO APROC CIRCUIT
HD SDI RX CIRCUIT
HD SDI IN J3
L4, 5, IC3
EQ
IC5
S/P
IC6
HD DEC
P2 P700
100 PIN CONNECTOR
THRU OUT J4
Q2-5
DRIVE
VCO
X1
IC613<7>
ROUNDING
SDI REC HD DATA
A/B76-79
EE THRU
SYS H
SYS H CNTRL
MUTE
DLY
CHAR ADD
HD SDI TX CIRCUIT
P600
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IC5
HD ENC
IC6
S/P
Q1-7
DRIVE & BUFF
X1
VCO
J2
J3
J4
J5
HD SDI OUT 1
HD SDI OUT 2
HD SDI OUT 3
HD SDI OUT 4
FROM VOUT/SYS CIRCUIT
A/B42-45
SDI PB HD DATA
A/B61,62
A/B23,24
SDI OUT AUD (CH1~CH8)
A DLY CH SELECT
A/B54
B57,58
CHAR GATE, DATA
SYSH
CHAR ADD
SD ENC
A/B47-51
SDI PB SD DATA
SYS H CNTRL
MUTE
DLY
IC700<8>
P/S & DRIVE
J700
SD_SDI_OUT
J701
SD_SDI_OUT_
FROM REC/PB CIRCUIT
B63
SDI PB CLK27
IC604<7>
BUFF

SECTION 7

MAJOR PART LOCATION

NOTE:
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

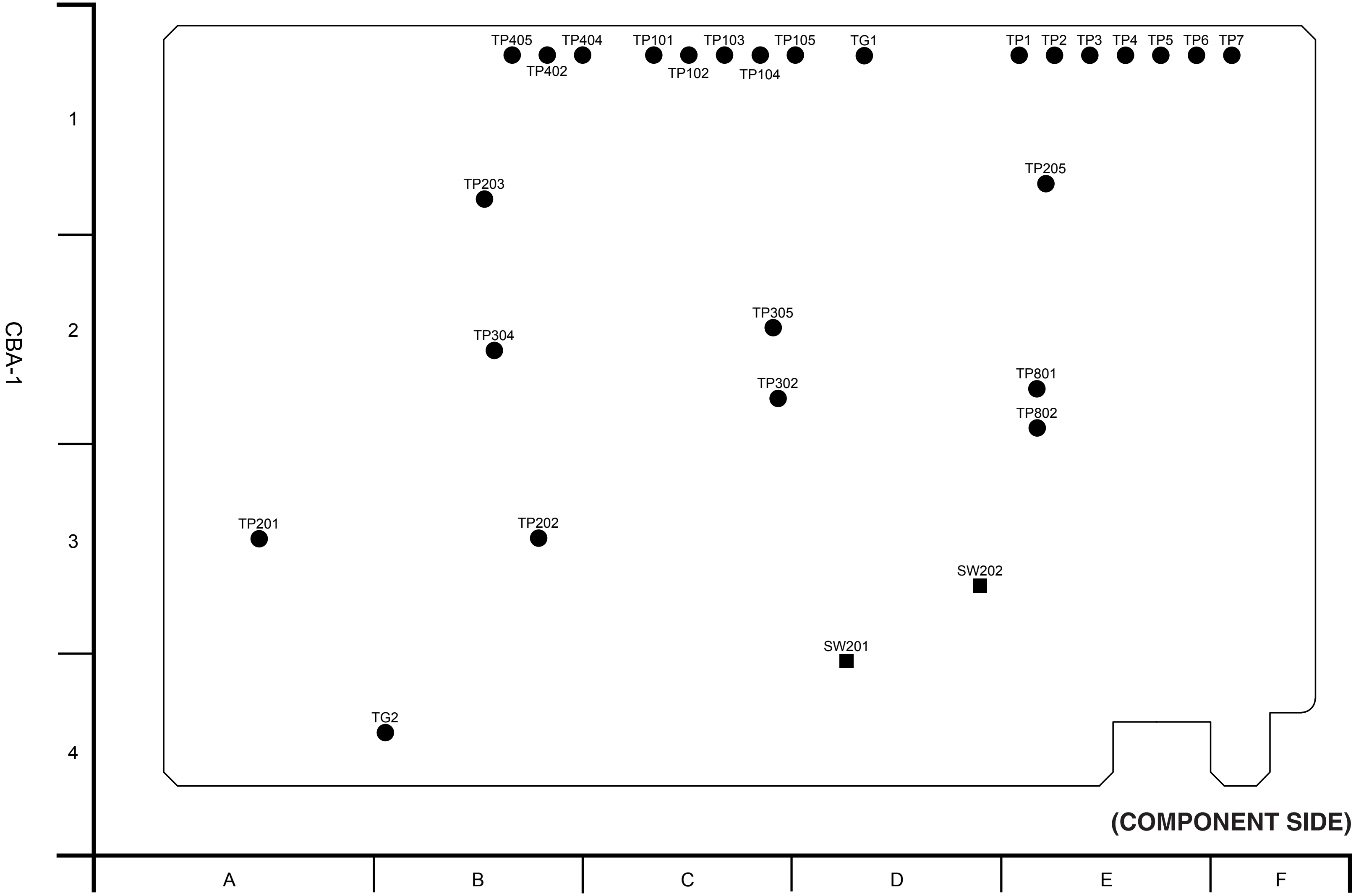
THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

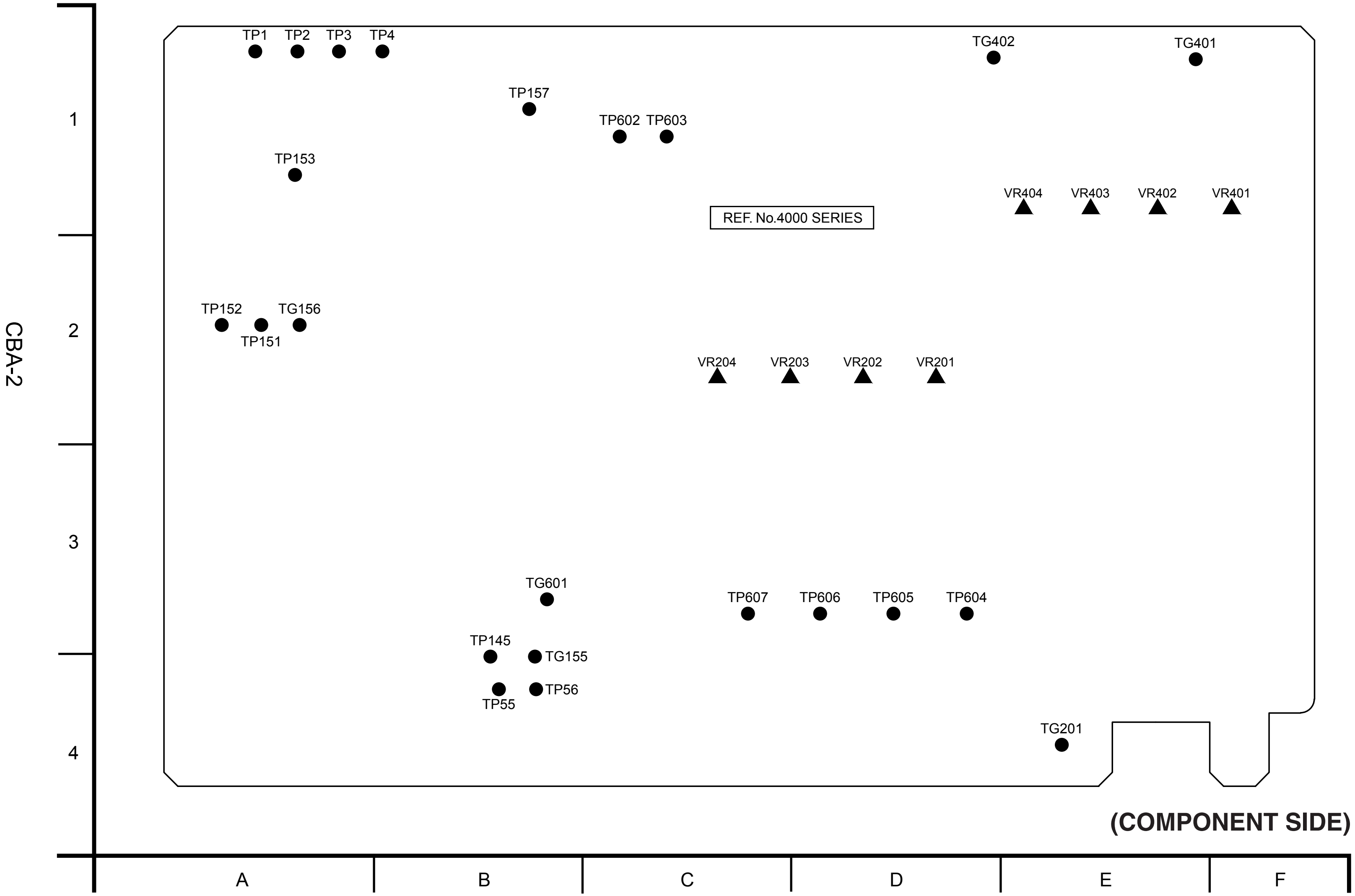
RF/EQ P.C.B. (VEP85214) CBA-1
APROC P.C.B. (VEP84393) CBA-2
REC PB P.C.B. (VEP83624) CBA-3
V OUT SYS P.C.B. (VEP83625) CBA-4
RF/CUE P.C.B. (VEP85215) CBA-5
SERVO P.C.B. (VEP82249) CBA-7
MECHA IF P.C.B. (VEP82250) CBA-8
UDC P.C.B. (VEP83573) CBA-10
SGEN SDI P.C.B. (VEP83634) CBA-12
1394 IF P.C.B. (VEP83628/83651) CBA-14
RF/EQ P.C.B. (VEP85214) CBA-15
APROC P.C.B. (VEP84393) CBA-15
REC PB P.C.B. (VEP83624) CBA-16
SERVO P.C.B. (VEP82249) CBA-16
MOTHER P.C.B. (VEP80C73) CBA-17
FRONT KEY P.C.B. (VEP86344) CBA-18
FRONT P.C.B. (VEP86343) CBA-18

RF/EQ P.C.BOARD (VEP85214) [F1]


CBA-1
1
2
3
4
A
B
C
D
E
F
TP405
TP402
TP404
TP101
TP102
TP103
TP104
TP105
TG1
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP203
TP205
TP305
TP304
TP801
TP302
TP802
TP201
TP202
SW202
SW201
TG2
(COMPONENT SIDE)

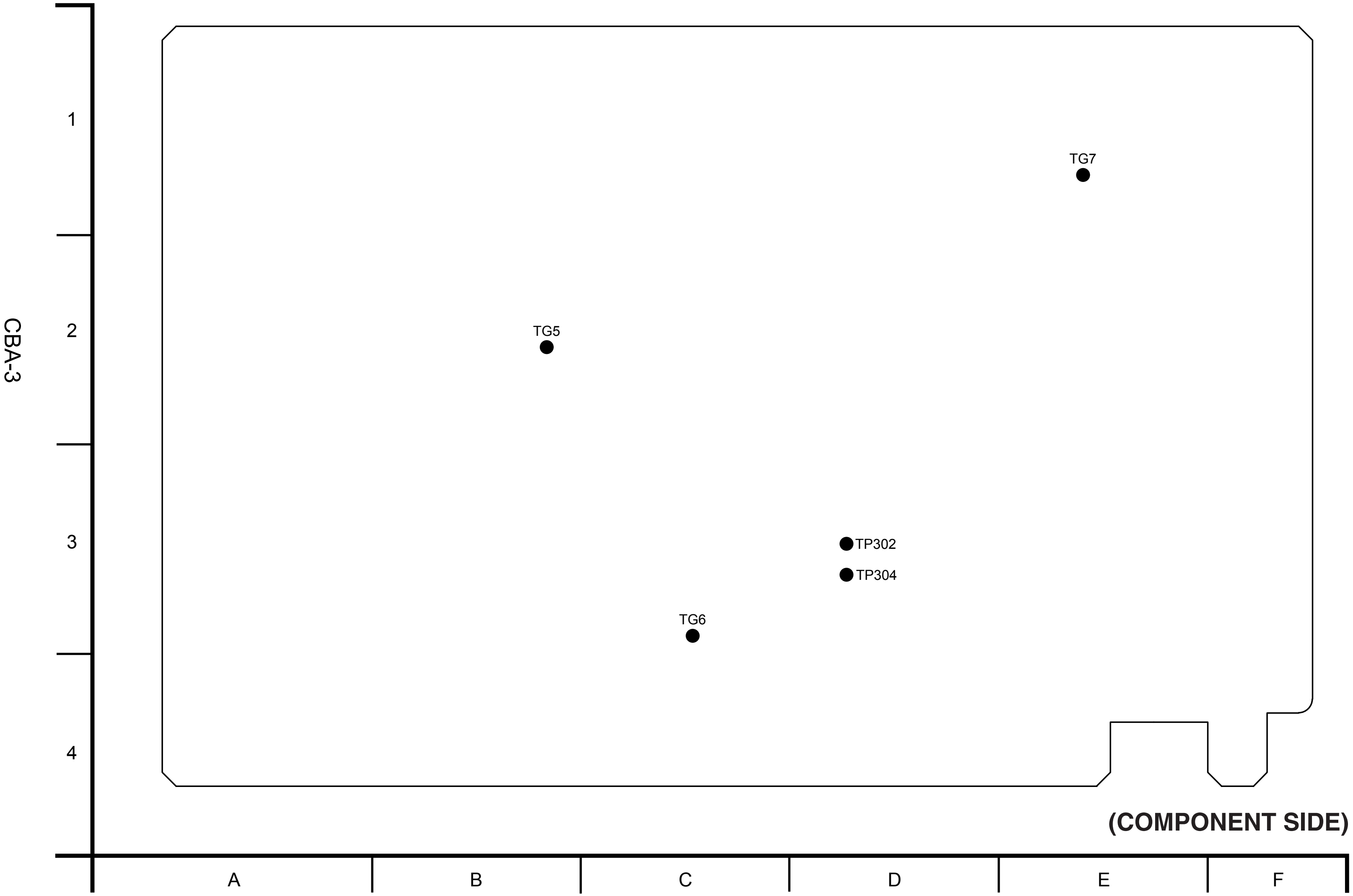
REF	LOC	REF	LOC
IC2	E1	Q201	D3
IC3	E2	Q202	D3
IC4	E1	Q306	B3
IC5	E1	Q307	B4
IC6	E2	Q406	C3
IC7	E2	Q407	C4
IC8	E2	Q507	B1
IC9	E1	Q557	C1
IC101	F1	Q607	D1
IC102	E1	Q702	C3
IC103	E1	Q732	B2
IC104	F2	Q762	D2
IC105	E2	Q802	E3
IC106	F2	Q803	E3
IC107	F1	QR1302	F3
IC203	D3	QR1303	F3
IC206	D4	QR1304	E3
IC301	B3	QR1305	E3
IC302	B3	QR1306	E3
IC351	A4	QR1307	E3
IC401	C3	QR1308	F3
IC402	C3	QR1309	F3
IC451	C4	QR1310	F3
IC501	A1		
IC502	B1		
IC551	C1	SW201	D4
IC552	C1	SW202	D3
IC601	D1		
IC602	D1		
IC701	D3	TG1	D1
IC731	B2	TG2	B4
IC761	D2	TP1	E1
IC801	B3	TP2	E1
IC805	D2	TP3	E1
IC806	D2	TP4	E1
IC901	C3	TP5	E1
IC904	A2	TP6	E1
IC1001	B2	TP7	F1
IC1101	C2	TP101	C1
IC1201	D2	TP102	C1
IC1301	F3	TP103	C1
IC1303	E3	TP104	C1
IC1304	E3	TP105	D1
IC1305	E3	TP201	A3
		TP202	B3
		TP203	B1
P1	C4	TP204	C1
P2	E3	TP205	E1
P3	B1	TP302	C2
P4	A1	TP304	B2
		TP305	C2
		TP402	B1
		TP404	C1
		TP405	B1
		TP801	E2
		TP802	E2

APROC P.C.BOARD (VEP84393) [F2]


TP1
TP2
TP3
TP4
TG402
TG401
TP157
TP602
TP603
TP153
VR404
VR403
VR402
VR401
REF. No.4000 SERIES
TP152
TG156
TP151
VR204
VR203
VR202
VR201
TG601
TP607
TP606
TP605
TP604
TP145
TG155
TP55
TP56
TG201
(COMPONENT SIDE)
CBA-2
1
2
3
4
A
B
C
D
E
F

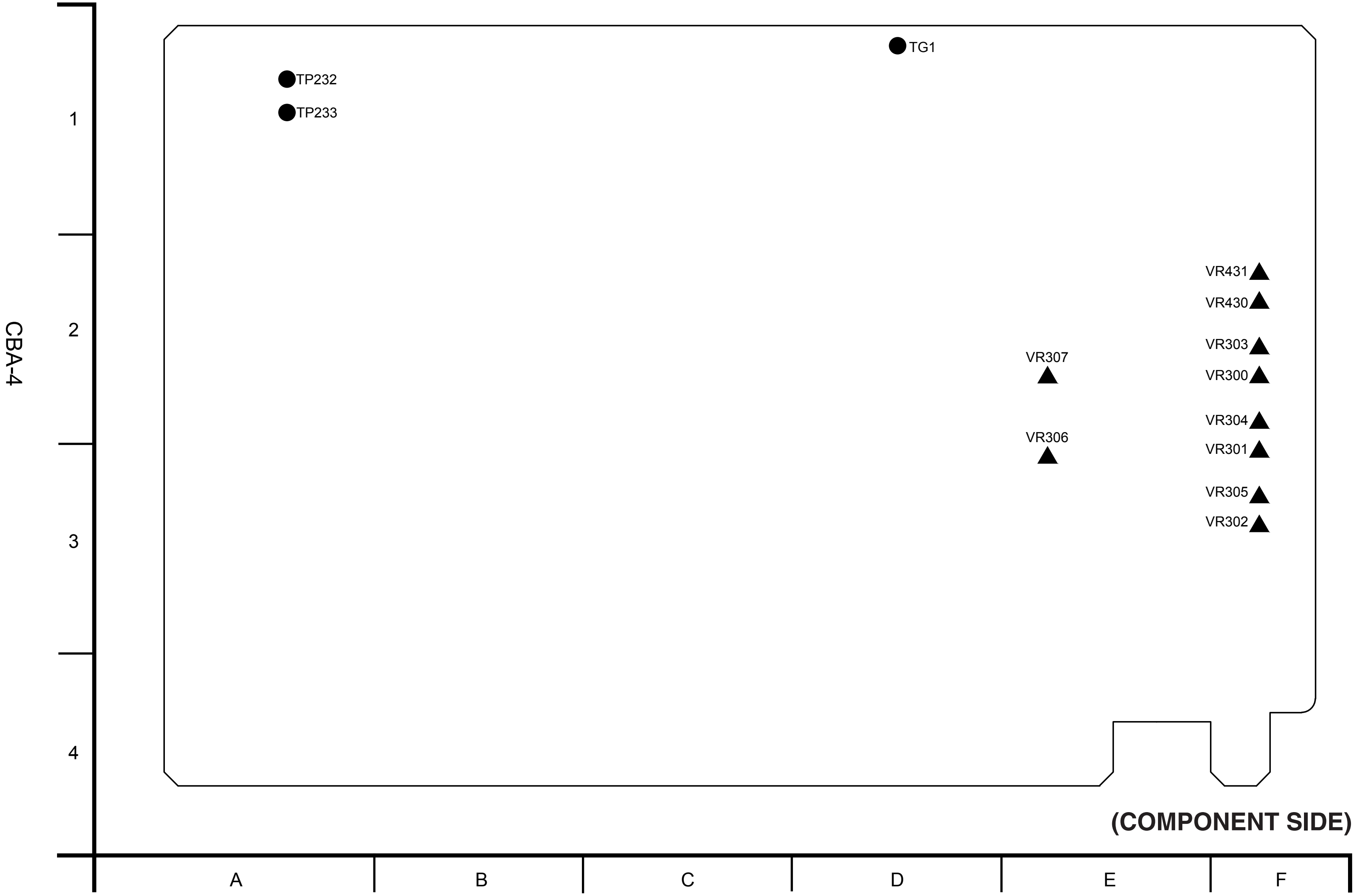
REF	LOC	REF	LOC
IC4004	A1	P4001	C4
IC4005	A1	P4002	B1
IC4007	B3		
IC4058	B2		
IC4059	B3	Q4604	C4
IC4109	B3	QR4601	C4
IC4110	A3	QR4602	C4
IC4111	A3		
IC4112	B3		
IC4163	B2	TG4155	B4
IC4167	A4	TG4156	A2
IC4169	B1	TG4157	B1
IC4170	B2	TG4201	E4
IC4171	A3	TG4401	E1
IC4172	B1	TG4402	D1
IC4173	A4	TG4601	B3
IC4205	F3	TP4001	A1
IC4206	E3	TP4002	A1
IC4207	E3	TP4003	A1
IC4208	E3	TP4004	B1
IC4221	F3	TP4055	B4
IC4222	E3	TP4056	B4
IC4223	E3	TP4151	A2
IC4224	E3	TP4152	A2
IC4225	F2	TP4153	A1
IC4226	E2	TP4154	B4
IC4227	E2	TP4602	C1
IC4228	E2	TP4603	C1
IC4409	E1	TP4604	D3
IC4410	D1	TP4605	D3
IC4411	C1	TP4606	D3
IC4601	D3	TP4607	C3
IC4602	C3		
IC4603	D4		
IC4606	D3	VR4201	D2
IC4607	D3	VR4202	D2
IC4613	D3	VR4203	C2
IC4615	D3	VR4204	C2
IC4617	C3	VR4401	F1
IC4618	D3	VR4402	E1
IC4620	D3	VR4403	E1
IC4622	C3	VR4404	E1
IC4624	D3		
IC4626	C3		
IC4639	C1		
IC4642	C1		
IC4646	C1		
IC4805	C2		

REC PB P.C.BOARD (VEP83624) [F3]


CBA-3
1
2
3
4
A
B
C
D
E
F
TG7
TG5
TP302
TP304
TG6
(COMPONENT SIDE)

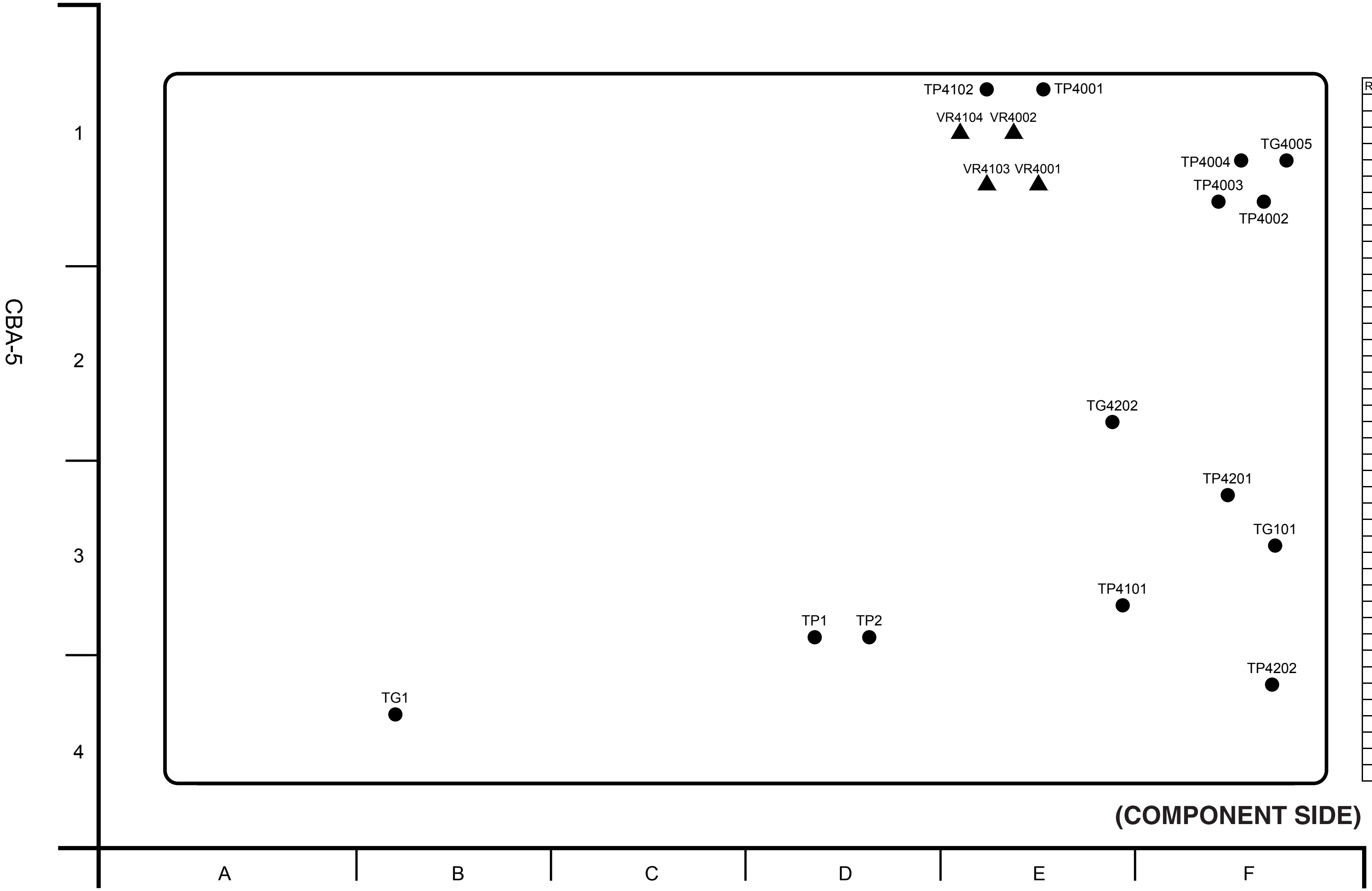
REF	LOC
IC1	B3
IC2	C4
IC3	B3
IC4	B3
IC53	C3
IC100	C2
IC150	A2
IC157	A2
IC158	D3
IC250	B1
IC251	A1
IC300	D2
IC370	F3
IC372	F3
IC373	E2
IC450	E1
IC500	E3
IC556	A4
IC558	D4
IC559	D4
IC560	D4
IC561	C4
IC660	D1
P1	C4
P2	E3
P3	E1
P300	D1
P651	E1
TG5	B2
TG6	C3
TG7	E1
TP302	D3
TP304	D3

V OUT SYS P.C.BOARD (VEP83625) [F4]


CBA-4
1
2
3
4
TG1
TP232
TP233
VR431
VR430
VR303
VR307
VR300
VR304
VR306
VR301
VR305
VR302
(COMPONENT SIDE)
A
B
C
D
E
F

REF	LOC	REF	LOC
IC30	B3	Q304	E2
IC31	C3	Q305	E3
IC33	C3	Q433	E1
IC36	B4	QR500	D2
IC40	A3	QR501	D2
IC41	A2	QR503	D1
IC42	B4		
IC45	A3		
IC150	C2	SW1	E1
IC230	B1		
IC232	A1		
IC302	D1	TG1	D1
IC306	E3	TP232	A1
IC307	F3	TP233	A1
IC310	D3		
IC312	E3		
IC431	E1	VR300	F2
IC500	D1	VR301	F3
IC504	D1	VR302	F3
IC601	E4	VR303	F2
IC604	D2	VR304	F2
IC605	D2	VR305	F3
IC610	D4	VR306	E3
IC611	D3	VR307	E2
IC628	D4	VR430	F2
IC629	E4	VR431	F2
P1	C4		
P2	E3		
P500	A1		
P501	B1		

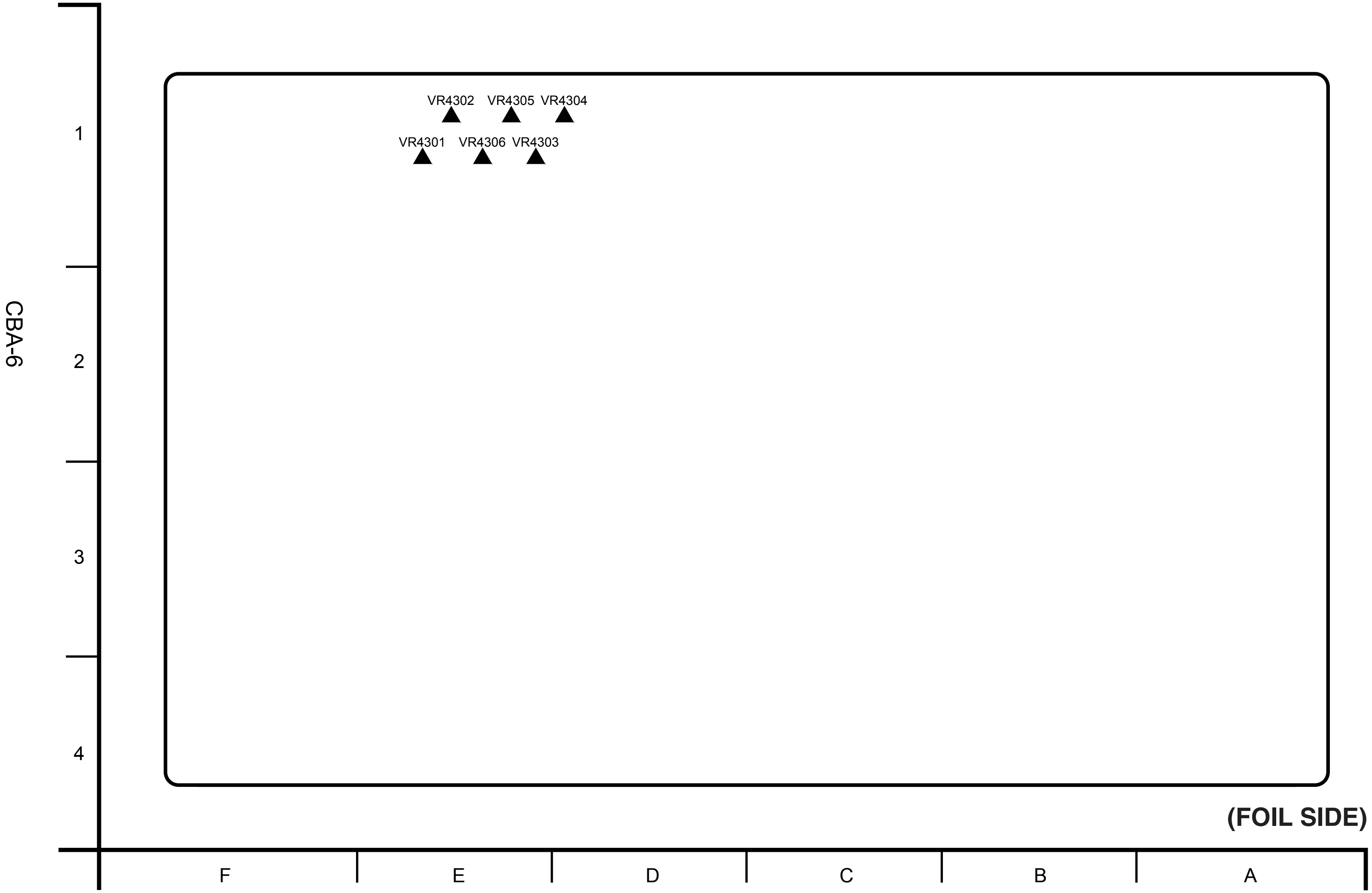
RF/CUE P.C.BOARD (VEP85215)


CBA-5
1
2
3
4
A
B
C
D
E
F
TP4102
TP4001
VR4104
VR4002
VR4103
VR4001
TP4004
TG4005
TP4003
TP4002
TG4202
TP4201
TG101
TP4101
TP1
TP2
TP4202
TG1

(COMPONENT SIDE)

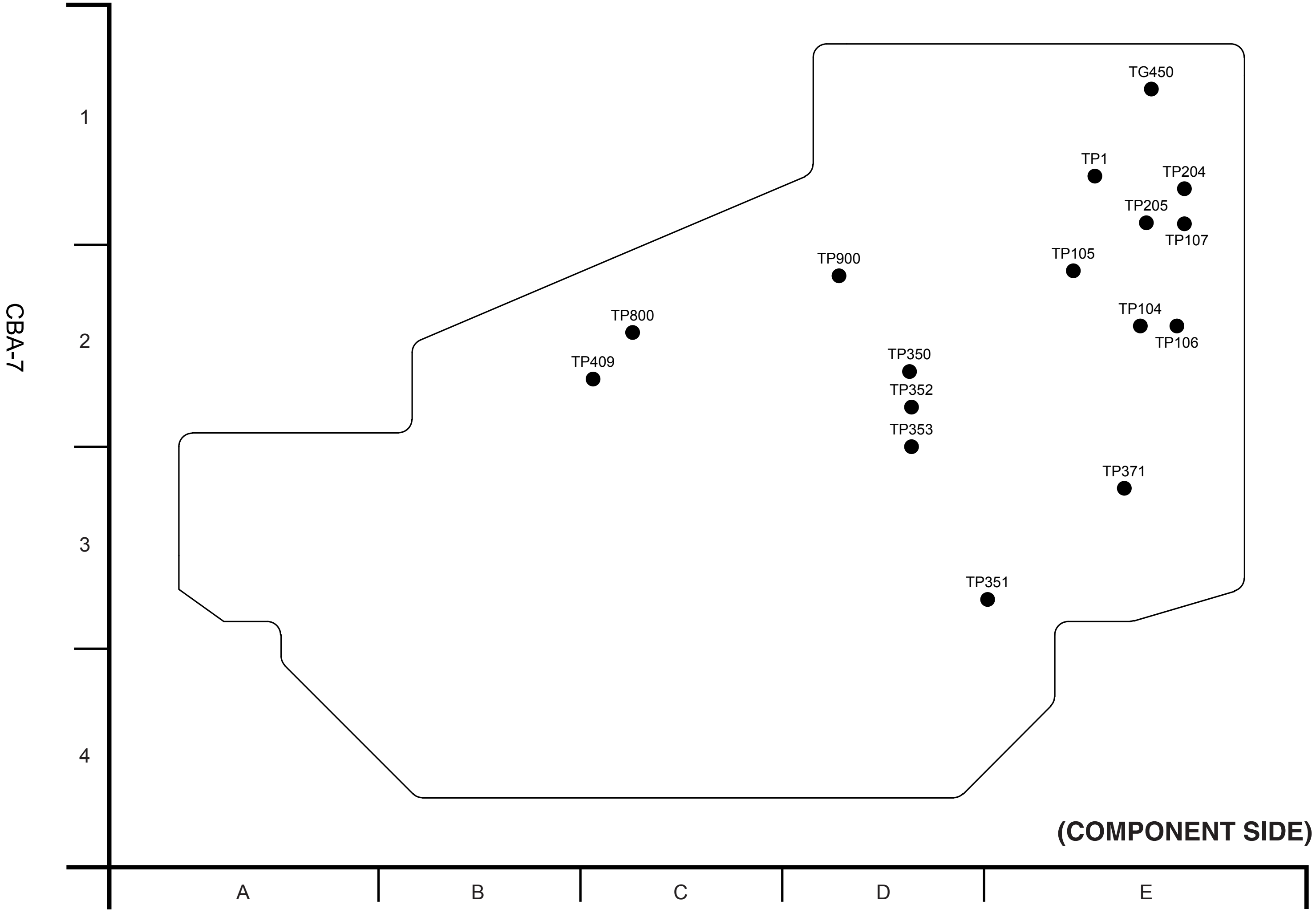
REF	LOC	REF	LOC	REF	LOC
IC1	D1	Q1	C2	Q464	B1
IC2	C1	Q2	D1	Q501	B3
IC3	C1	Q3	C1	Q502	B3
IC4	C1	Q4	C2	Q531	C3
IC5	D1	Q5	D1	Q560	D3
IC7	C2	Q6	D1	Q561	D3
IC8	C2	Q7	C2	Q580	D3
IC9	C1	Q8	D2	Q581	D3
IC10	C2	Q9	C2	Q601	D2
IC11	C2	Q106	B1	Q602	D2
IC12	C2	Q107	C1	Q4201	F3
IC401	B4	Q108	C1	QR601	D2
IC402	A4	Q110	B1	QR602	D2
IC431	C3	Q111	C1	QR4201	F3
IC432	C2	Q112	C1	QR4202	F3
IC461	B1	Q114	B1		
IC462	B1	Q116	B1		
IC501	B3	Q176	B2	TG1	B4
IC502	A3	Q177	C2	TG4005	F1
IC531	C3	Q178	C1	TG4101	F3
IC532	C3	Q180	B2	TG4203	E2
IC4102	E4	Q181	C2	TP1	D3
IC4103	E3	Q182	C1	TP2	D3
IC4104	E3	Q184	B2	TP4001	E1
IC4106	E4	Q186	B2	TP4002	F1
IC4108	E1	Q256	B2	TP4003	F1
IC4109	D1	Q257	C2	TP4004	F1
IC4201	F3	Q260	B2	TP4101	E3
IC4203	F4	Q261	C2	TP4102	E1
IC4204	F4	Q264	B2	TP4201	F3
IC4205	F3	Q266	B2	TP4202	F4
IC4207	F3	Q326	B2		
IC4308	E2	Q327	C3		
IC4312	D2	Q330	B2	VR4001	E1
IC4313	E2	Q331	C2	VR4002	E1
		Q334	B3	VR4103	E1
		Q336	B3	VR4104	E1
P1	E4	Q401	B4		
P2	D1	Q402	B4		
P3	C3	Q431	C2		
P4	D4	Q461	B1		
P4001	E1	Q462	B1		

RF/CUE P.C.BOARD (VEP85215)



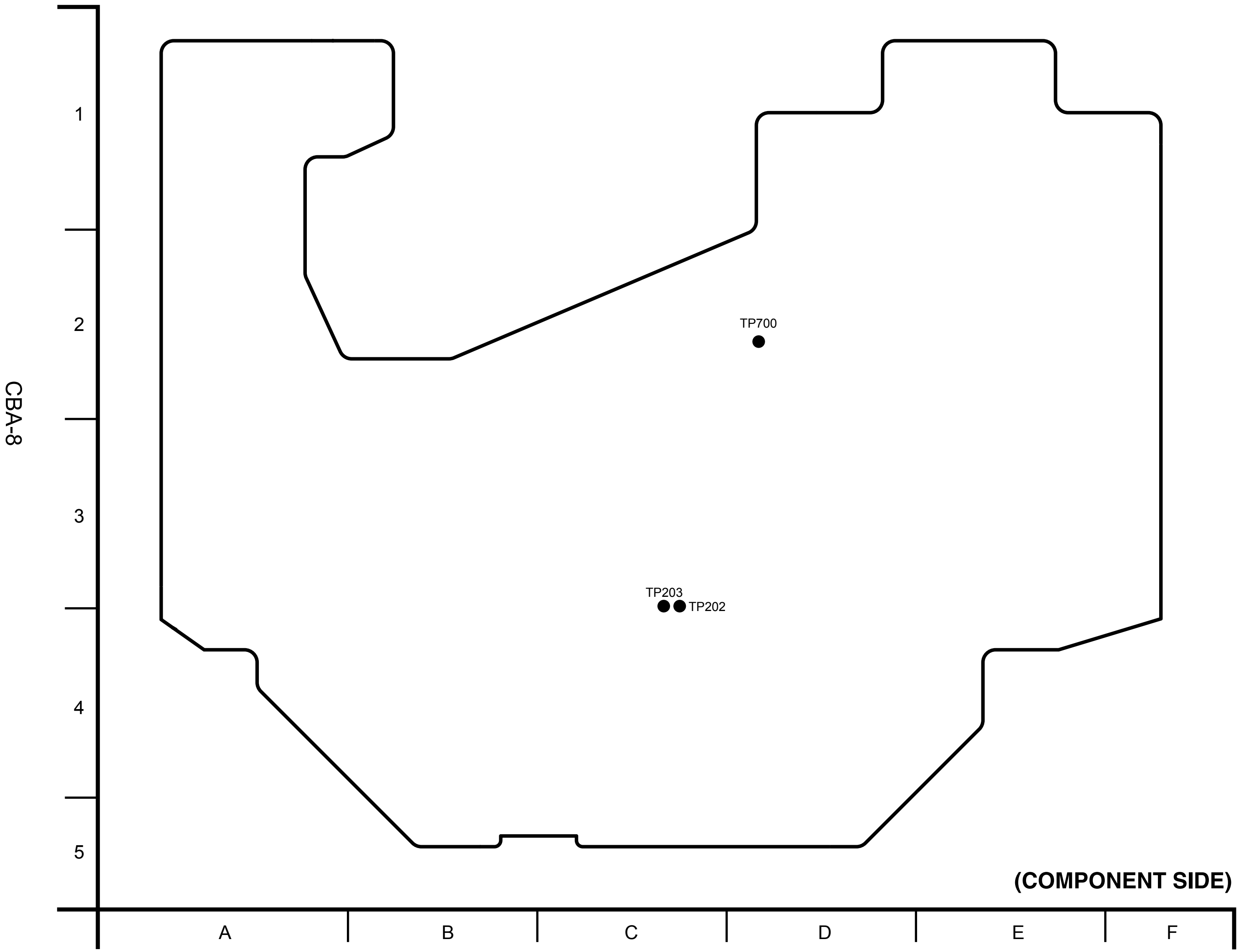
REF	LOC	REF	LOC
IC101	A2	Q322	A3
IC251	A2	Q324	A2
IC601	D2	Q325	B2
IC602	D2	Q329	B2
IC4001	E2	Q333	B3
IC4105	E3	Q335	B3
IC4107	E3	Q337	A3
IC4206	F3	Q403	B4
IC4209	F3	Q405	A4
IC4301	D3	Q435	C2
IC4302	E3	Q463	B1
IC4303	E2	Q465	A1
IC4309	E2	Q503	B3
IC4310	D2	Q505	A3
		Q535	C2
		Q4001	F2
Q101	A1	Q4002	F2
Q102	A1	Q4003	F2
Q103	C1	Q4004	F2
Q104	A1	Q4005	F2
Q105	B1	Q4006	F2
Q109	B1	Q4007	E2
Q113	B1	Q4008	E2
Q115	B1	Q4009	E2
Q117	A1	Q4010	E2
Q171	A2	Q4011	F1
Q172	A2	Q4012	F1
Q173	C1	QR4001	F2
Q174	A2	QR4002	F2
Q175	B2	QR4003	E2
Q179	B2	QR4004	E2
Q183	B2	QR4005	E2
Q185	B2	QR4006	F1
Q187	A2	QR4007	F1
Q251	A2		
Q252	A2		
Q254	A2	VR4301	E1
Q255	B2	VR4302	E1
Q259	B2	VR4303	E1
Q263	B2	VR4304	D1
Q265	B2	VR4305	E1
Q267	A2	VR4306	E1
Q321	A2		

SERVO P.C.BOARD (VEP82249)


CBA-7
1
2
3
4
A
B
C
D
E
TG450
TP1
TP204
TP205
TP107
TP900
TP105
TP104
TP106
TP800
TP409
TP350
TP352
TP353
TP371
TP351
(COMPONENT SIDE)

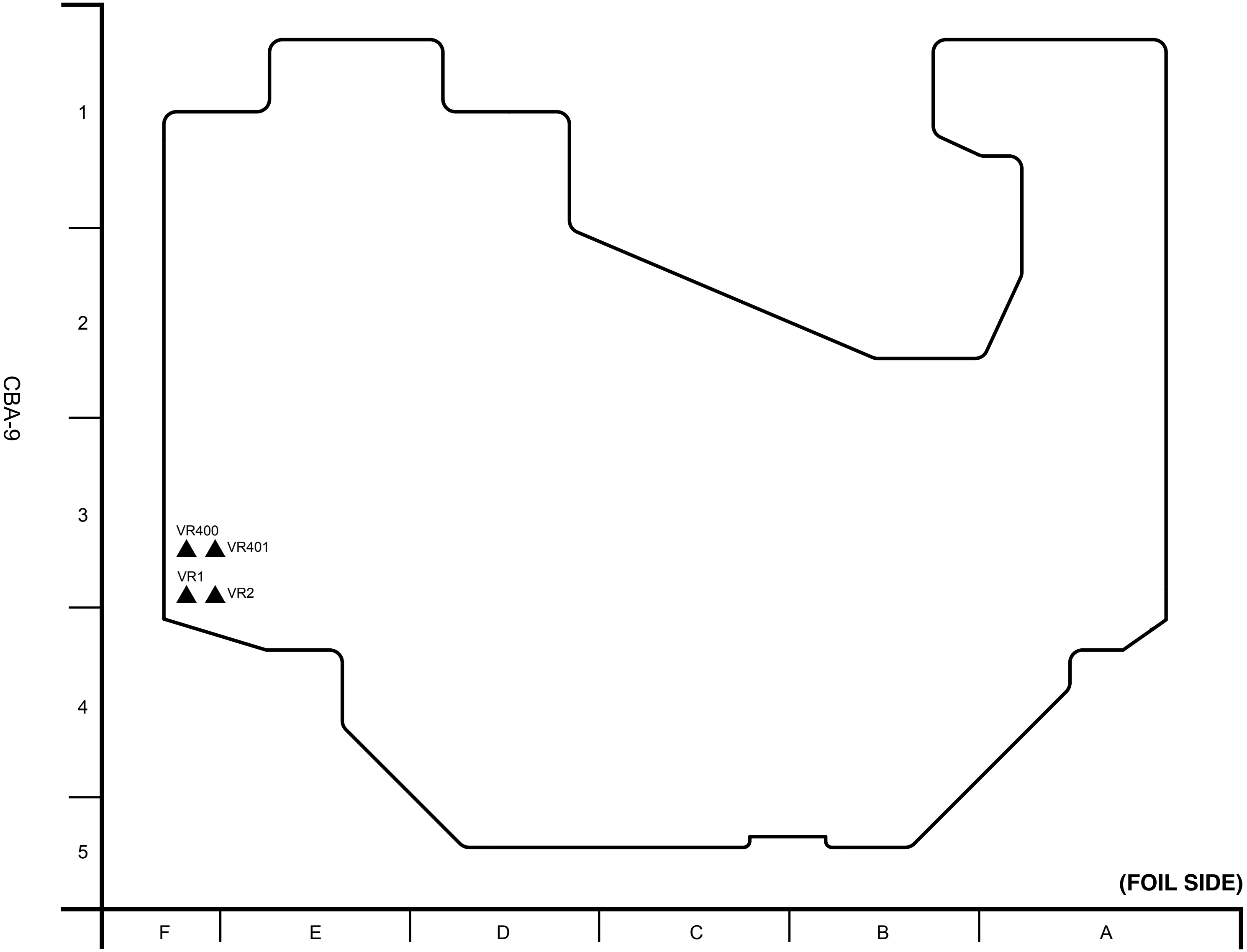
REF	LOC	REF	LOC
IC300	C1	QR400	A2
IC301	C1	QR401	A2
IC302	C2	QR402	A2
IC350	E2	QR700	D3
IC400	E3	QR701	D2
IC700	B3	QR702	D3
IC701	B3	QR703	D2
IC900	E2	QR800	B3
IC5001	E4	QR801	B3
IC5002	D4	QR802	B3
		QR803	D2
		QR804	C3
P300	C2	QR805	C2
P350	C1	QR806	C2
P900	E1	QR807	C2
P901	E2	QR808	C3
P902	A3	QR809	C3
		QR810	C2
		QR811	B3
Q450	A1	QR812	B3
Q451	A1	QR813	B3
Q700	B2	QR814	B3
Q701	B2	QR815	B4
Q702	E3	QR816	B3
Q703	E3	QR5001	E4
Q704	E3	QR5002	D4
Q705	E3	QR6001	C4
Q706	E3	QR6002	C4
Q707	E3		
Q800	B4		
Q801	B4	TG450	E1
Q802	B4	TP1	E1
Q5001	E4	TP104	E2
Q5002	D4	TP105	E2
Q5003	A3	TP106	E2
Q5004	E4	TP107	E1
Q5005	E4	TP204	E1
Q5006	D4	TP205	E1
Q6001	C4	TP350	D2
Q6002	C4	TP351	E3
QR1	C1	TP352	D2
QR2	B1	TP353	D2
QR3	D1	TP371	E3
QR4	D1	TP409	C2
QR9	B1	TP800	C2
		TP801	C2
		TP900	D2

MECHA IF P.C.BOARD (VEP82250)



REF	LOC	REF	LOC
IC3	C3	Q1	C3
IC5	C3	Q100	E3
IC7	C3	Q101	A3
IC14	B2	Q102	E3
IC15	B3	Q300	E3
IC18	B3	Q301	D2
IC19	B3	Q500	D4
IC300	E3	Q501	B4
IC301	E3	Q502	D4
IC302	B3	Q703	D2
IC303	B3	Q704	D2
IC304	B3	Q705	D2
IC305	D3	QR100	E3
		QR101	E3
		QR102	A3
P300	C4	QR103	A3
P400	C5	QR104	E3
P401	C5	QR105	A3
P402	D2	QR106	A1
P403	F1	QR107	A1
P404	A1	QR108	A1
P405	A2	QR109	B1
P406	A3	QR110	A1
P407	E2	QR111	B1
P408	A3	QR400	E1
P409	E3	QR401	D1
P410	F3	QR700	D2
P411	C5	QR701	D2
P412	E1	QR702	D2
P413	A1	QR703	D2
P414	D1		
P415	D4		
P416	B4	TP202	C3
P417	E1	TP203	C3
P418	F2	TP700	D2
P419	C2		
P420	A2		
P421	A1		
P422	F2		
P423	A2		

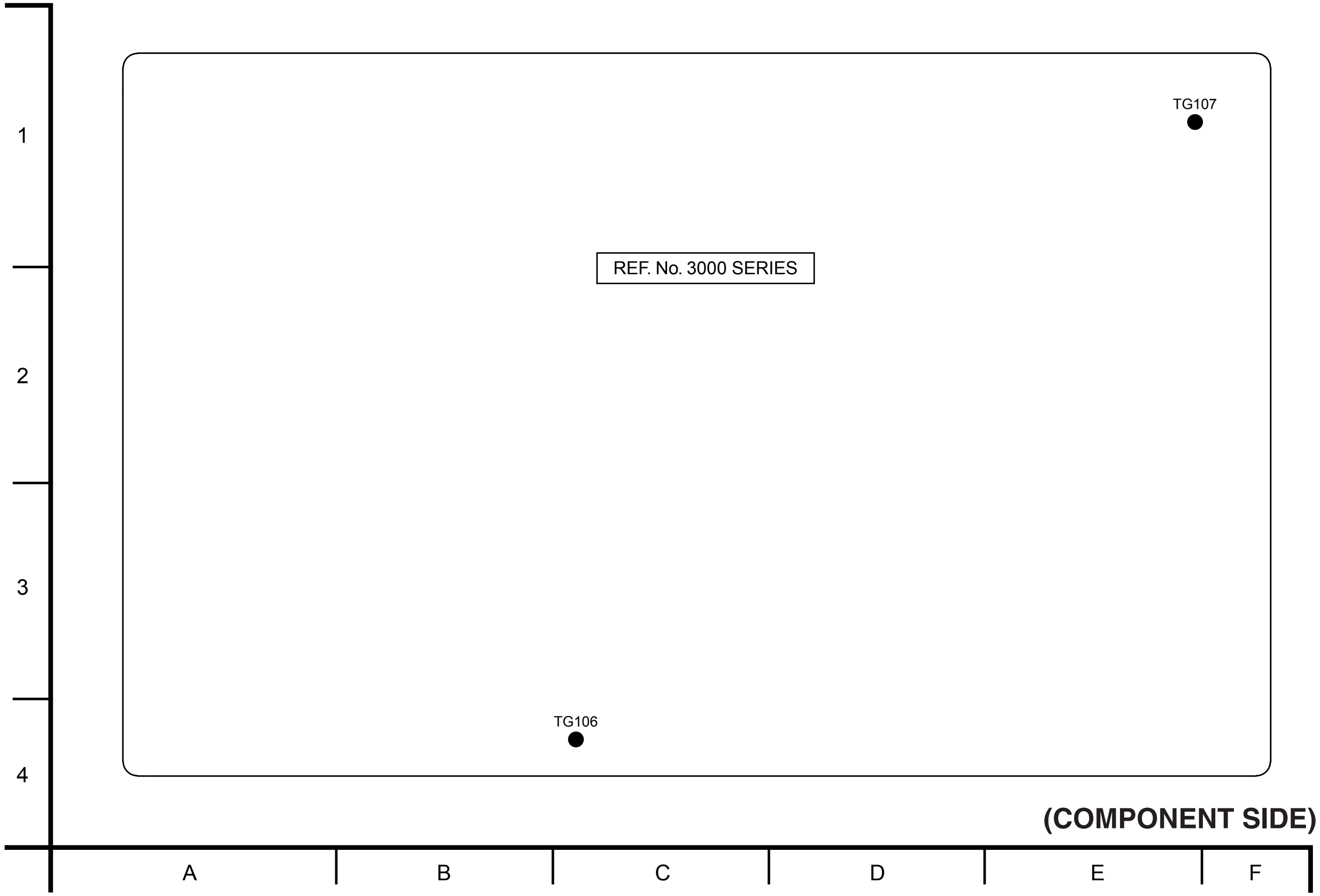
MECHA IF P.C.BOARD (VEP82250)


1
2
3
4
5
CBA-9
VR400
VR401
VR1
VR2
(FOIL SIDE)
F
E
D
C
B
A

REF	LOC
IC2	C3
IC4	C3
IC6	C3
IC8	B3
IC306	B3
IC307	B3
IC400	E1
IC401	E1
IC500	C4
IC501	C4
IC502	D4
IC503	C4
IC703	D2
IC2254	B3
Q103	A2
Q104	A2
Q105	A1
Q106	A1
Q107	A1
Q400	D1
Q401	D1
Q503	B4
Q504	D4
Q505	B4
Q700	D2
Q701	D1
Q702	D2
QR500	C4
QR501	C4
QR502	C4
QR503	C5
VR1	F3
VR2	F3
VR400	F3
VR401	F3

UDC P.C.BOARD (VEP83573) [F4]

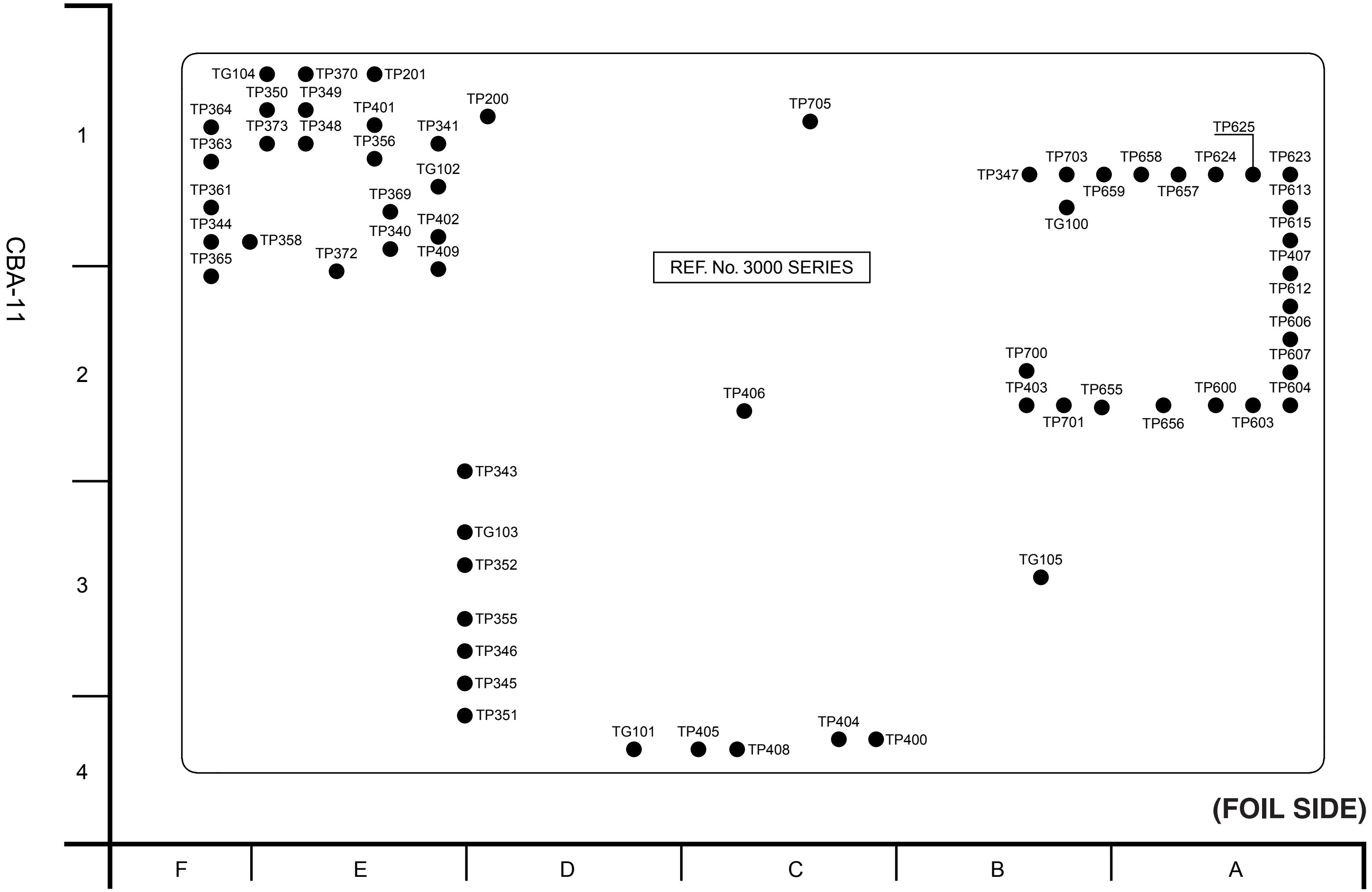
CBA-10


1
2
3
4
A
B
C
D
E
F
TG107
TG106
REF. No. 3000 SERIES

(COMPONENT SIDE)

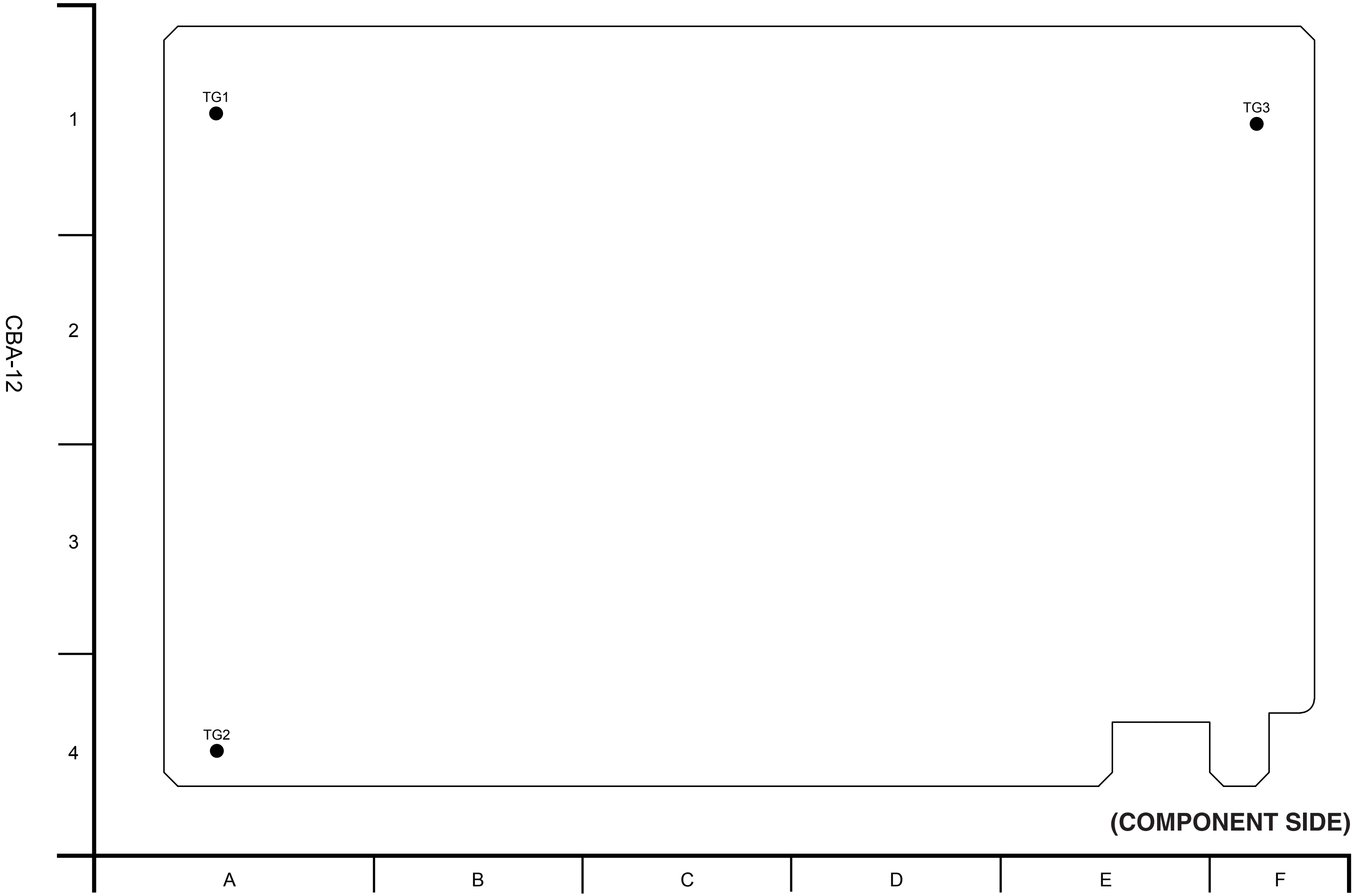
REF	LOC
IC100	A1
IC101	E2
IC205	B1
IC206	D2
IC208	B2
IC210	C1
IC211	D1
IC212	C2
IC213	D2
IC214	D1
IC215	D2
IC216	D2
IC217	C2
IC218	B2
IC219	B2
IC340	E3
IC401	D4
IC500	B3
IC501	B3
IC502	D3
IC503	D3
IC600	A2
IC700	B2
IC701	E1
IC709	F2
IP700	E1
IP701	E1
IP702	F1
P100	C1
P700	E1
P701	E4
TG106	C4
TG107	E1

UDC P.C.BOARD (VEP83573) [F4]


CBA-11
1
2
3
4
F
E
D
C
B
A
TG104
TP370
TP201
TP350
TP349
TP364
TP373
TP348
TP401
TP200
TP363
TP356
TP341
TP705
TG102
TP361
TP369
TP344
TP358
TP402
TP340
TP365
TP372
TP409
REF. No. 3000 SERIES
TP625
TP703
TP658
TP624
TP623
TP347
TP659
TP657
TP613
TG100
TP615
TP407
TP612
TP606
TP700
TP607
TP403
TP655
TP600
TP604
TP701
TP656
TP603
TP406
TP343
TG103
TP352
TG105
TP355
TP346
TP345
TP351
TG101
TP405
TP408
TP404
TP400
(FOIL SIDE)

REF	LOC	REF	LOC
IC102	B1	TP349	E1
IC200	D1	TP350	E1
IC201	D1	TP351	E4
IC202	D2	TP352	E3
IC203	D2	TP355	E3
IC204	D2	TP356	E1
IC207	D2	TP358	F1
IC209	C2	TP361	F1
IC341	E2	TP363	F1
IC342	E2	TP364	F1
IC400	C3	TP365	F2
IC504	B3	TP369	E1
IC505	B3	TP370	E1
IC506	D3	TP372	E2
IC507	D3	TP373	E1
IC508	A3	TP400	C4
IC509	A3	TP401	E1
IC510	E3	TP402	E1
IC511	E3	TP403	B2
IC512	A3	TP404	C4
IC513	A3	TP405	C4
IC514	E3	TP406	C2
IC515	E3	TP407	A2
IC702	B2	TP408	C4
IC703	B2	TP409	E2
IC704	C1	TP600	A2
IC705	C2	TP603	A2
IC706	B1	TP604	A2
		TP606	A2
		TP607	A2
TG100	B1	TP612	A2
TG101	D4	TP613	A1
TG102	E1	TP615	A1
TG103	E3	TP623	A1
TG104	E1	TP624	A1
TG105	B3	TP625	A1
TP200	D1	TP654	A2
TP201	E1	TP655	B2
TP340	E1	TP657	A1
TP341	E1	TP658	A1
TP343	E2	TP659	B1
TP344	F1	TP700	B2
TP345	E3	TP701	B2
TP346	E3	TP703	B1
TP347	B1	TP705	C1
TP348	E1		

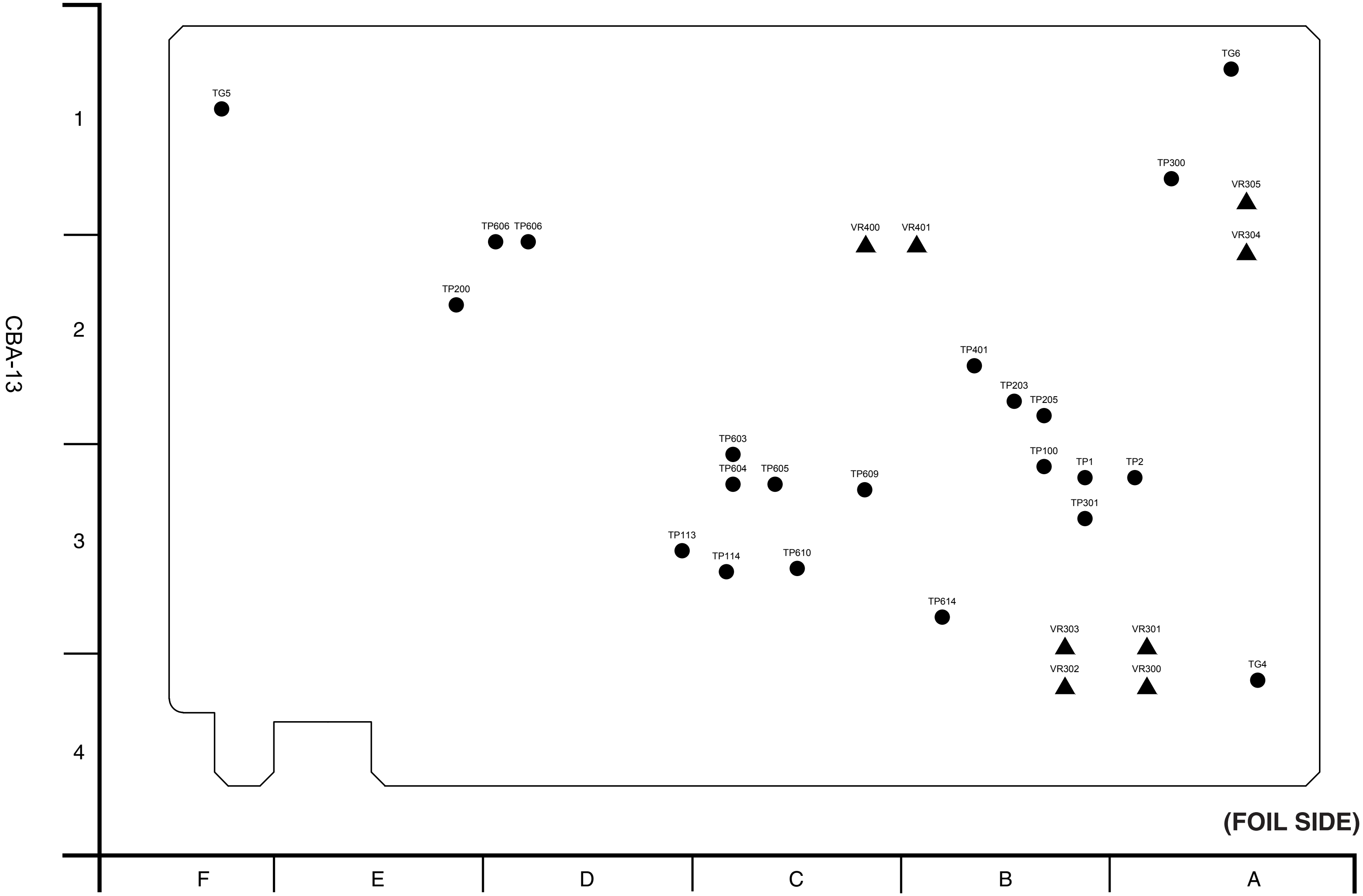
SGNE SDI P.C.BOARD (VEP83634) [F5]



(COMPONENT SIDE)

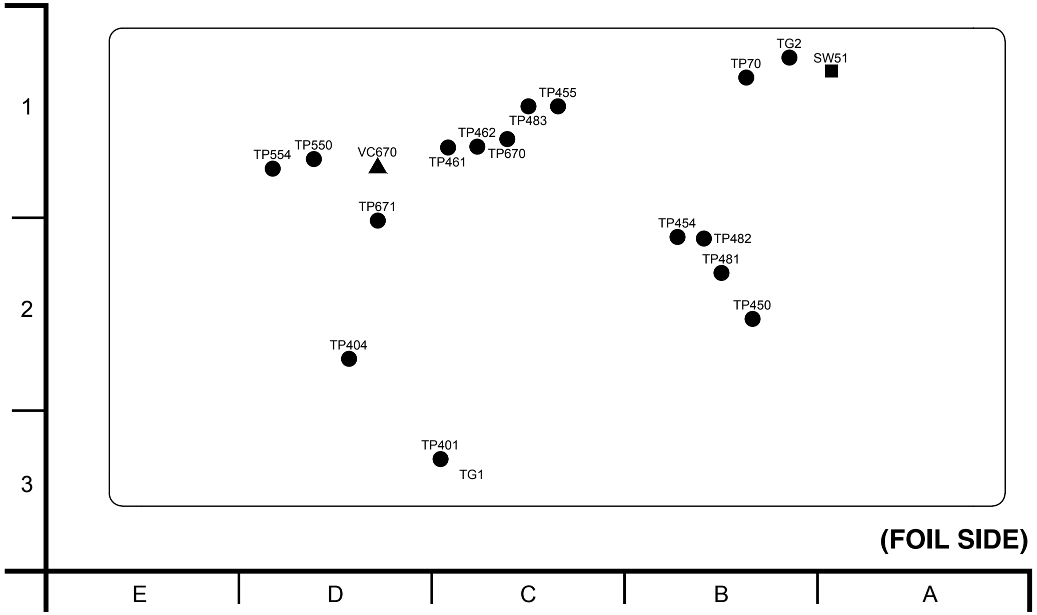
REF	LOC	REF	LOC
IC2	E3	IC411	B2
IC3	E3	IC500	E3
IC6	F3	IC502	E2
IC7	F3	IC508	E2
IC102	D3	IC600	C3
IC104	D3	IC601	D4
IC105	D3	IC602	D3
IC106	C3	IC603	D3
IC107	D3	IC604	C3
IC108	D3	IC605	D3
IC109	D3	IC606	D2
IC112	D3	IC609	D2
IC114	D3	IC610	D2
IC116	D3	IC613	D2
IC200	B2	IC614	B3
IC300	B3	IC620	C3
IC301	A4	IC623	B3
IC302	B4	IC624	B3
IC303	B3	IC625	C3
IC304	A3	IC700	E2
IC305	B2	IC701	E1
IC306	A3		
IC307	B3		
IC308	A3	P1	C4
IC309	A2	P2	E3
IC310	A3	P3	E1
IC311	A1	P600	D1
IC320	A2	P700	B1
IC338	B3		
IC339	B3		
IC400	C2	Q100	D3
IC401	C2	Q101	D3
IC403	B2	Q102	E3
IC405	C2	Q103	E3
IC406	B2		
IC407	C1		
IC408	B1	TG1	A1
IC409	B2	TG2	A4
IC410	C2	TG3	F1

SGEN SDI P.C.BOARD (VEP83634) [F5]


CBA-13
1
2
3
4
TG6
TG5
TP300
VR305
TP606
TP606
VR400
VR401
VR304
TP200
TP401
TP203
TP205
TP603
TP100
TP1
TP2
TP604
TP605
TP609
TP301
TP113
TP114
TP610
TP614
VR303
VR301
VR302
VR300
TG4
(FOIL SIDE)
F
E
D
C
B
A

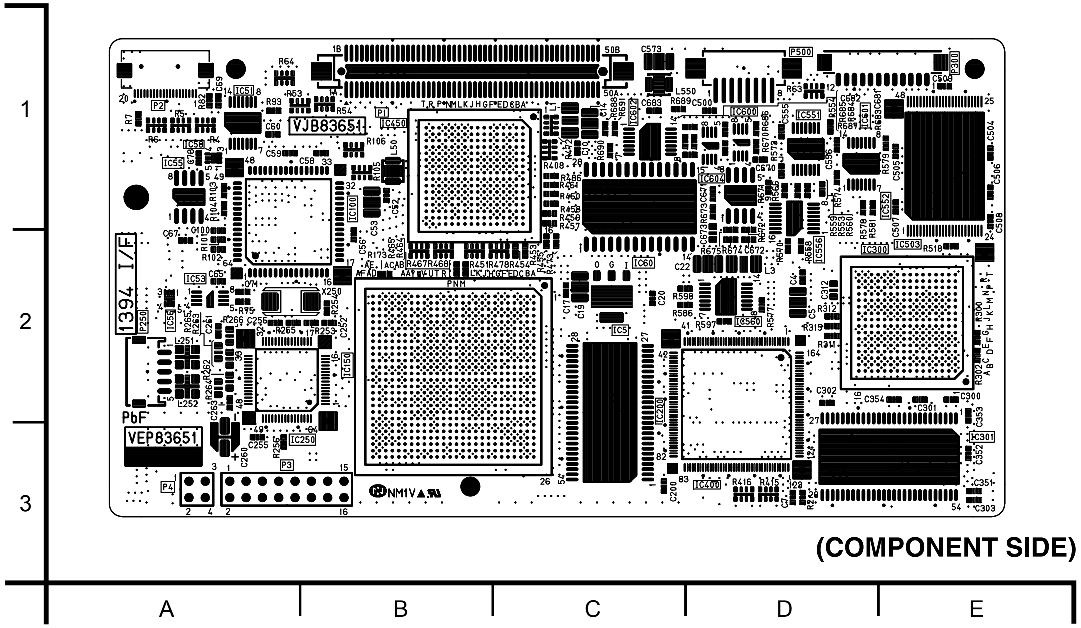
REF	LOC	REF	LOC
IC5	D1	TP100	B3
IC8	D1	TP113	D3
IC100	E3	TP114	C3
IC101	D4	TP200	E2
IC103	D3	TP203	B2
IC119	D3	TP205	B2
IC201	A2	TP300	A1
IC312	A2	TP301	B3
IC314	B1	TP401	B2
IC316	A2	TP603	C3
IC340	B3	TP604	C3
IC503	E2	TP605	C3
IC504	E3	TP606	D2
IC506	F2	TP607	D2
IC509	F1	TP609	C3
IC510	F2	TP610	C3
IC615	C4	TP614	B3
IC618	C4		
IC619	C4		
IC622	B4	VR300	A4
		VR301	A3
		VR302	B4
TG4	A4	VR303	B3
TG5	F1	VR304	A2
TG6	A1	VR305	A1
TP1	B3	VR400	C2
TP2	A3	VR401	B2

1394 IF P.C.BOARD (VEP83651) [F3]



TG2
SW51
TP70
TP455
TP483
TP462
TP670
TP461
VC670
TP550
TP554
TP671
TP454
TP482
TP481
TP450
TP404
TP401
TG1
1
2
3
E
D
C
B
A

(FOIL SIDE)



1394 I/F
VJB83651
VEP83651
PbF
1
2
3
A
B
C
D
E

(COMPONENT SIDE)

REF	LOC	REF	LOC	REF	LOC
IC1	D2	Q671	D1	TP454	B2
IC2	D3	QR1	D3	TP455	C1
IC3	D2	QR50	C1	TP461	C1
IC4	C2	QR51	D1	TP462	C1
IC6	D2	QR52	D1	TP481	B2
IC50	A1	QR53	D1	TP482	B2
IC350	E3	QR54	C1	TP483	C1
IC500	D1	QR500	D1	TP550	D1
IC502	E1			TP554	D1
IC557	C2			TP670	C1
IC561	C2	SW51	A1	TP671	D2
IC562	C2				
		TG1	C3	VC670	D1
P50	A1	TG2	B1		
		TP70	B1		
		TP401	C3		
Q1	D3	TP404	D2		
Q670	C1	TP450	B2		

REF	LOC	REF	LOC
IC5	C2	IC551	D1
IC51	A1	IC552	D1
IC53	A2	IC556	D1
IC55	A1	IC560	D2
IC56	A2	IC600	D1
IC58	A1	IC601	D1
IC60	C1	IC602	C1
IC100	A1	IC604	D1
IC150	B2		
IC200	C2		
IC250	A2	P1	B1
IC300	E2	P2	A1
IC301	E3	P3	A3
IC400	D2	P4	A3
IC450	B1	P250	A2
IC503	E1	P500	D1

RF/EQ P.C.BOARD (VEP85214)

Foil Side

REF	LOC	REF	LOC
IC1	E2	Q502	A1
IC201	D3	Q503	A1
IC202	D4	Q504	B1
IC204	D4	Q505	B1
IC303	A3	Q506	B1
IC403	C3	Q551	C1
IC802	A3	Q552	C1
IC803	B2	Q553	C1
IC804	D3	Q554	C1
IC902	C3	Q555	C1
IC1002	B2	Q556	C1
IC1003	B2	Q601	D1
IC1102	C2	Q602	D1
IC1202	D2	Q603	D1
IC1203	E2	Q604	E1
		Q605	E1
		Q606	D1
Q1	E2	Q701	C3
Q2	E2	Q703	D3
Q3	E2	Q731	B2
Q203	D3	Q733	B2
Q204	D3	Q761	D1
Q205	D3	Q763	C2
Q206	D3	Q801	B3
Q301	B4	Q901	C3
Q302	B4	Q1001	B2
Q303	B3	Q1101	C2
Q304	B4	Q1201	D2
Q305	A4	Q1301	E3
Q351	A3	Q1302	E3
Q401	C3	Q1303	E3
Q402	C4	Q1304	F3
Q403	C3	Q1305	F3
Q404	C4	Q1306	E3
Q405	C4	Q1307	E3
Q451	B3	QR351	A3
Q501	A1	QR352	A3

APROC P.C.BOARD (VEP84393)

Foil Side

REF	LOC	REF	LOC	REF	LOC
IC4003	B1	IC4243	D3	Q4803	C2
IC4006	B1	IC4244	C3	Q4804	C3
IC4008	B3	IC4245	C3	Q4805	C2
IC4057	B2	IC4401	F2	Q4806	C3
IC4060	B2	IC4402	E2	QR4201	D2
IC4061	B2	IC4403	E2	QR4202	D2
IC4105	A3	IC4404	E2	QR4203	C2
IC4106	B3	IC4412	D2	QR4204	C2
IC4114	B3	IC4413	D2	QR4205	D2
IC4115	C3	IC4414	D2	QR4206	D2
IC4116	B4	IC4415	C2	QR4207	C2
IC4151	A2	IC4420	D2	QR4208	C2
IC4152	A2	IC4421	D2		
IC4155	A2	IC4422	D2		
IC4156	B4	IC4423	C2		
IC4158	A2	IC4632	C1		
IC4160	A1	IC4633	C1		
IC4161	A4	IC4636	E4		
IC4162	A4	IC4637	E4		
IC4164	A1	IC4640	D4		
IC4166	A2	IC4641	D4		
IC4174	A4	IC4644	D4		
IC4175	A4	IC4645	D4		
IC4209	F4	IC4801	C1		
IC4210	E4	IC4806	C2		
IC4211	F3	IC4807	C2		
IC4212	E3				
IC4213	E3				
IC4214	E3	Q4201	D2		
IC4219	E4	Q4202	D2		
IC4220	E4	Q4203	C2		
IC4229	F2	Q4204	C2		
IC4230	E2	Q4601	C4		
IC4231	E2	Q4602	C3		
IC4232	E2	Q4603	C4		
IC4233	E4	Q4801	C3		
IC4242	D3	Q4802	C3		

REC PB P.C.BOARD (VEP83624)

Foil Side

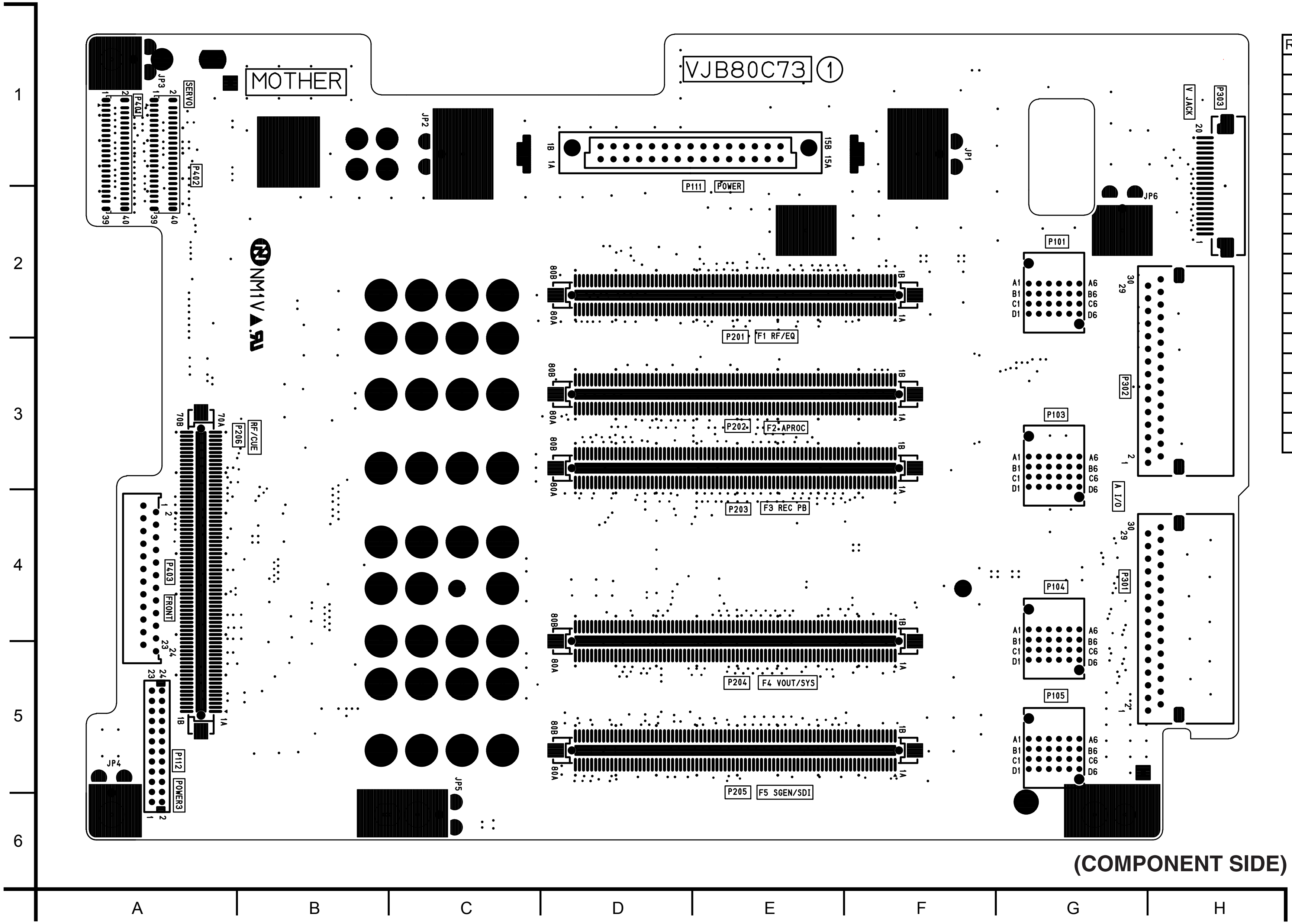
REF	LOC
IC5	E4
IC50	C2
IC51	B2
IC52	B2
IC101	C1
IC102	C1
IC151	B1
IC152	A1
IC153	A3
IC154	A4
IC155	A3
IC156	A4
IC200	A2
IC201	B3
IC202	A3
IC252	B1
IC253	B1
IC254	B1
IC371	F2
IC550	C4
IC551	A4
IC552	C3
IC553	C4
IC554	C4
IC555	C4
IC557	E3
IC562	B4
IC652	D1
P650	D1
QR650	D1

SERVO P.C.BOARD (VEP82249)

Foil Side

REF	LOC	REF	LOC
IC1	D1	Q800	D4
IC20	E1	Q801	D4
IC23	D2	Q802	D4
IC24	C3	Q5001	B4
IC26	C2	Q5002	B4
IC27	C3	Q5004	B4
IC28	E3	Q5005	A4
IC29	E2	Q5006	B4
IC38	B4	QR1	D1
IC41	D4	QR2	D1
IC42	D4	QR9	E1
IC46	E3	QR400	F2
IC47	D2	QR401	F2
IC48	D2	QR402	F2
IC49	D2	QR700	C3
IC50	D2	QR701	C2
IC51	D2	QR702	C3
IC52	E4	QR703	C2
IC53	D3	QR800	D3
IC54	C2	QR801	D3
IC300	D1	QR802	D3
IC301	D1	QR804	C3
IC351	E3	QR805	C2
IC5001	B4	QR806	D2
IC5002	B4	QR807	C2
IC6001	C4	QR808	C3
		QR809	D3
		QR810	C2
P903	C3	QR811	D3
		QR812	D3
		QR813	E3
Q450	F1	QR814	E3
Q451	F1	QR815	D4
Q702	B3	QR816	D3
Q703	A3	QR5001	B4
Q704	B3	QR5002	B4
Q705	A3	QR6001	D4
Q706	B3	QR6002	D4
Q707	A3		

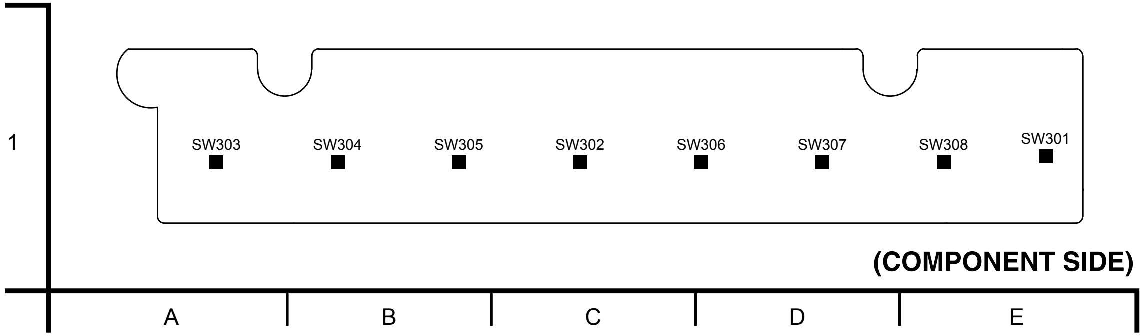
MOTHER P.C.BOARD (VEP80C73)


MOTHER
VJB80C73 ①
SERVO
P401
P402
JP2
JP3
JP1
P111
POWER
V JACK
P303
JP6
P101
P201
F1 RF/EQ
P202
F2 APROC
P203
F3 REC PB
P204
F4 VOUT/SYS
P205
F5 SGEN/SDI
P302
A I/O
P301
P103
P104
P105
P206
RF/CUE
P403
FRONT
P112
POWER3
JP4
JP5
1
2
3
4
5
6
A
B
C
D
E
F
G
H

(COMPONENT SIDE)

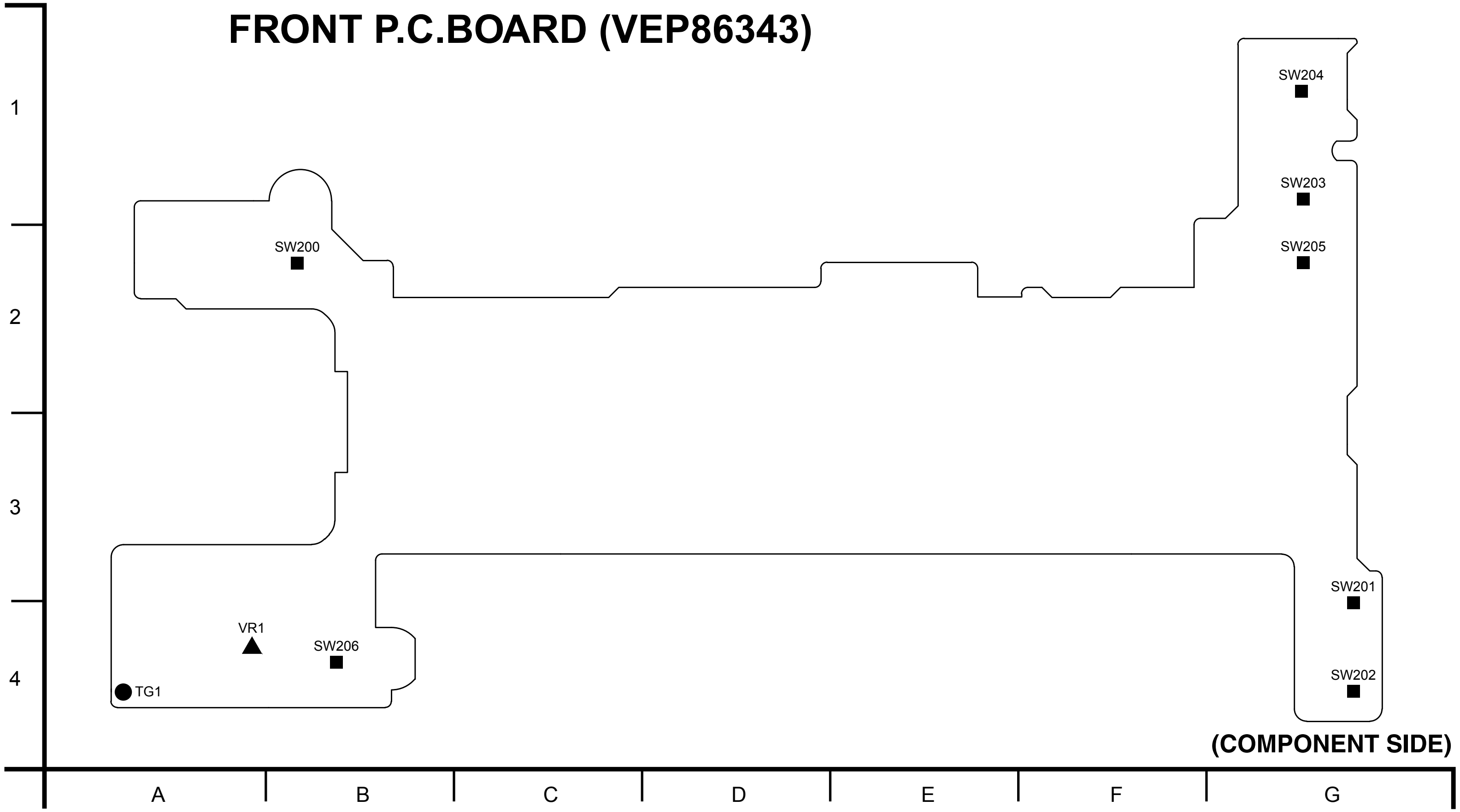
REF	LOC
P101	G2
P103	G3
P104	G5
P105	G5
P111	D1
P112	A6
P201	E2
P202	E3
P203	E3
P204	E5
P205	E5
P206	A4
P301	H5
P302	H3
P303	H2
P401	A1
P402	A1
P403	A4

FRONT KEY P.C.BOARD (VEP86344)


1
SW303
SW304
SW305
SW302
SW306
SW307
SW308
SW301
(COMPONENT SIDE)
A
B
C
D
E

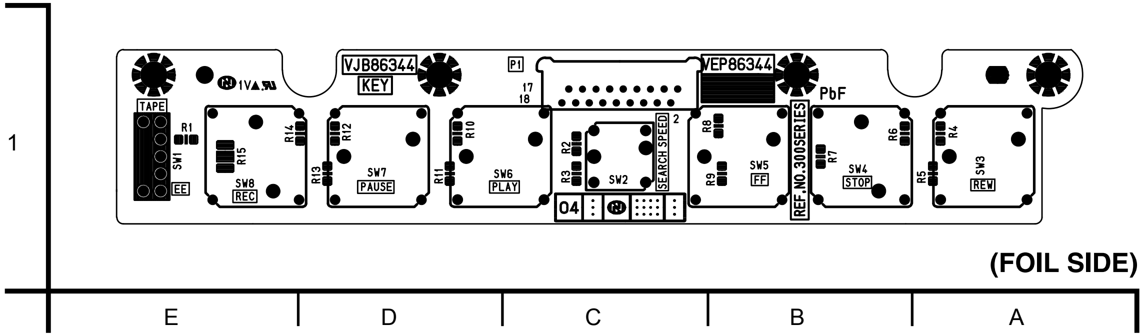
REF	LOC
SW301	E1
SW302	C1
SW303	A1
SW304	B1
SW305	B1
SW306	C1
SW307	D1
SW308	E1

FRONT P.C.BOARD (VEP86343)


1
2
3
4
SW204
SW203
SW205
SW200
SW201
SW202
VR1
SW206
TG1
(COMPONENT SIDE)
A
B
C
D
E
F
G

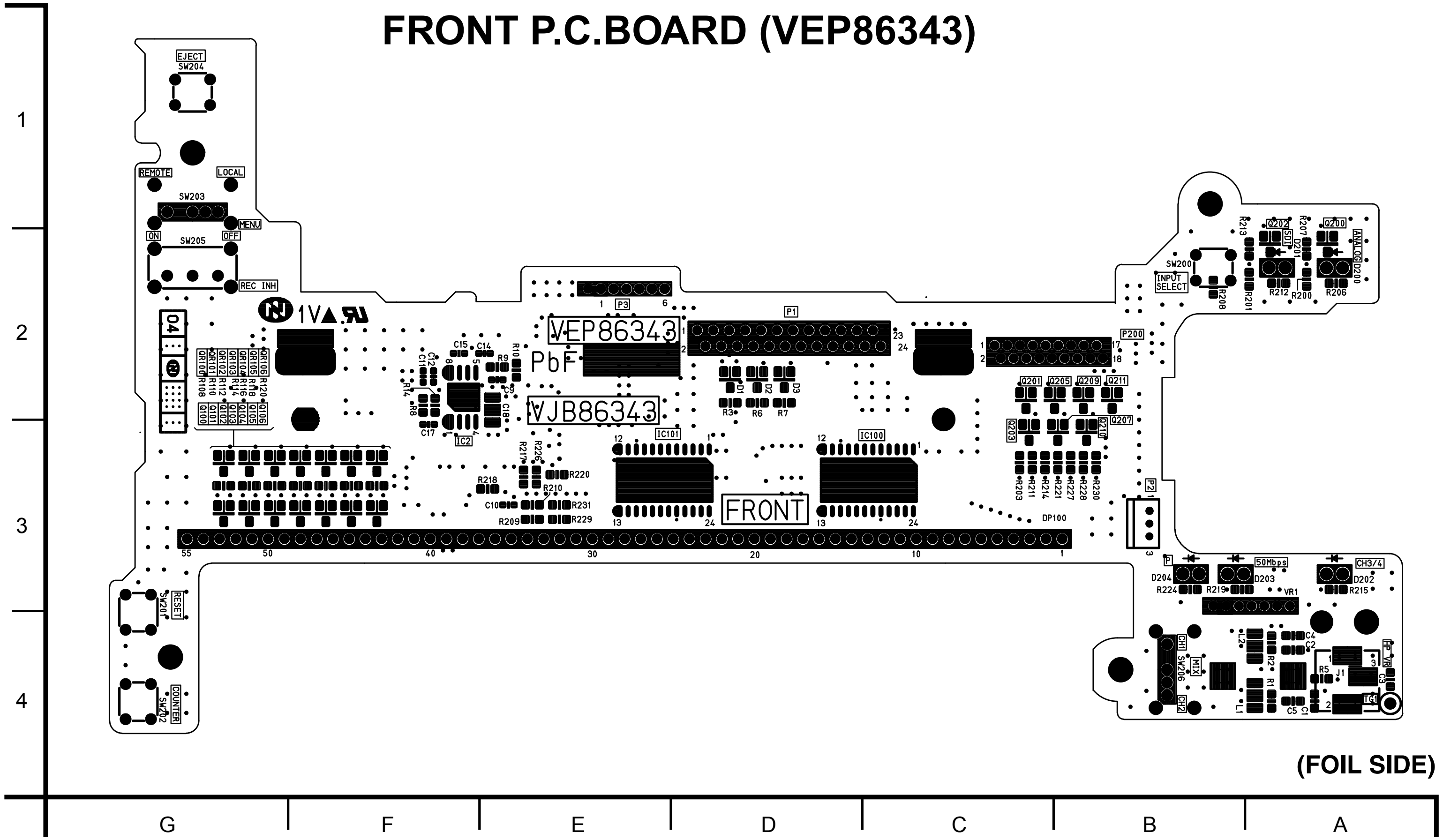
REF	LOC
IC1	E3
IC3	E2
P1	D2
P3	E2
P200	C2
Q204	A3
Q206	B3
Q208	B3
SW200	B2
SW201	G4
SW202	G4
SW203	G1
SW204	G1
SW205	G2
SW206	B4
VR1	A4

FRONT KEY P.C.BOARD (VEP86344)



VJB86344
KEY
P1
VEP86344
PbF
TAPE
SW1
EE
SW8
REC
SW7
PAUSE
SW6
PLAY
SW2
SEARCH SPEED
SW5
FF
REF.NO.300SERIES
SW4
STOP
SW3
REW
04
1
(FOIL SIDE)
E
D
C
B
A

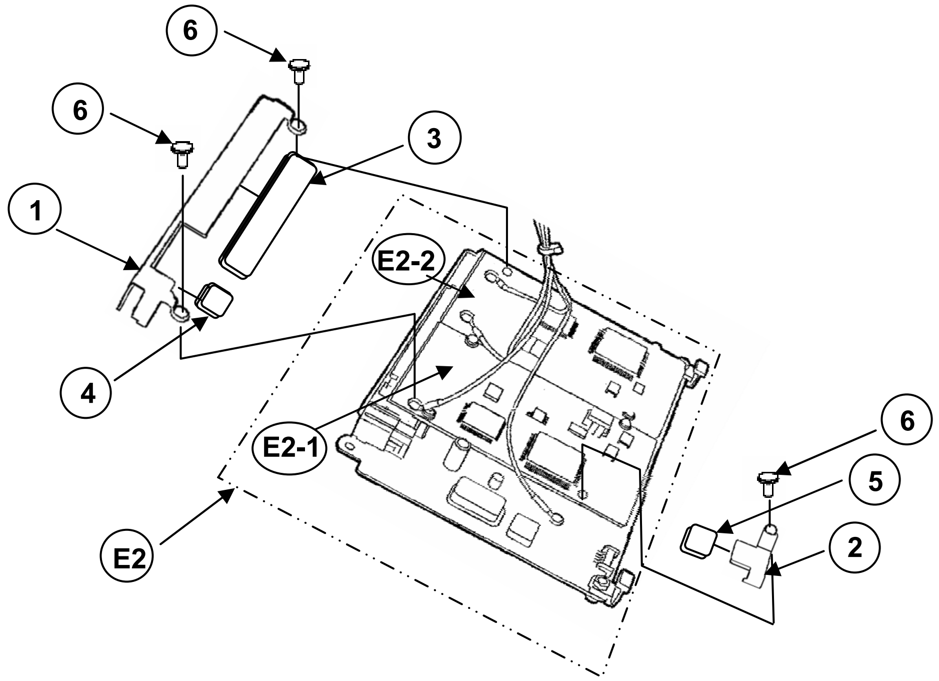
FRONT P.C.BOARD (VEP86343)

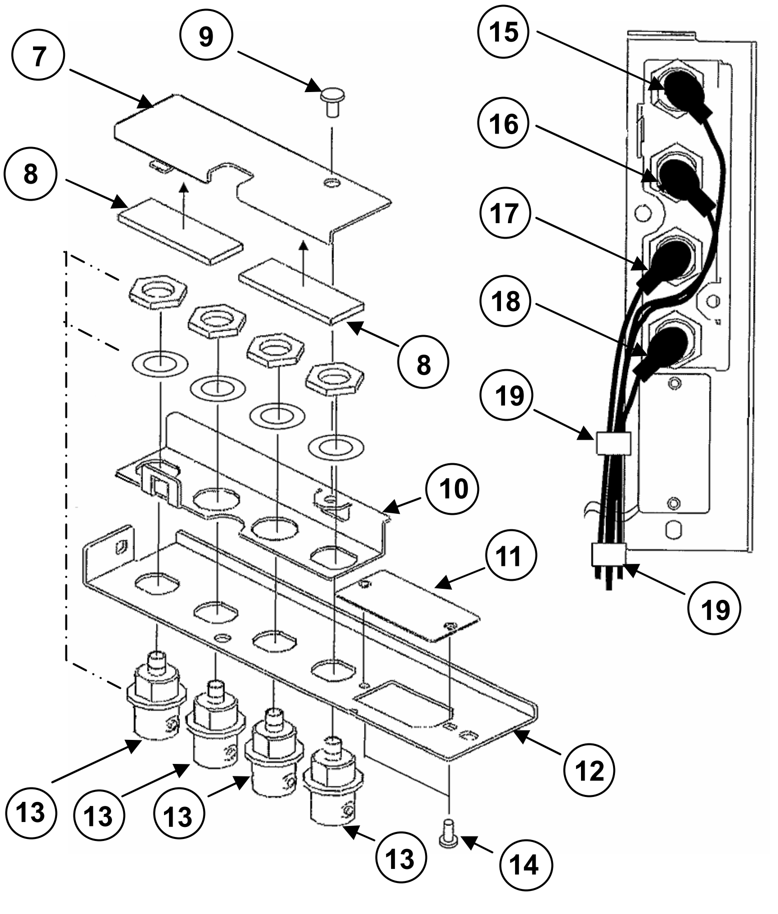


EJECT
SW204
REMOTE
LOCAL
SW203
MENU
ON
OFF
SW205
REC INH
04
VEP86343
PbF
VJB86343
P3
P1
P200
IC2
IC101
IC100
FRONT
DP100
P2
SW200
INPUT SELECT
ANALOG
RESET
SW201
COUNTER
SW202
50Mbps
CH3/4
VR1
CH1
SW206
MIX
CH2
1
2
3
4
(FOIL SIDE)
G
F
E
D
C
B
A

REF	LOC
IC2	F2
IC100	C3
IC101	E3
P2	B3
Q100	G3
Q101	G3
Q102	G3
Q103	F3
Q104	F3
Q105	F3
Q106	F3
Q200	A2
Q201	C2
Q202	A2
Q203	C3
Q205	B2
Q207	B3
Q209	B2
Q210	B3
Q211	B2
QR100	G3
QR101	G3
QR102	G3
QR103	F3
QR104	F3
QR105	F3
QR106	F3

BOARD / JACK PANEL ASSEMBLY (AJ-YA120AG)


6
6
3
1
E2-2
4
E2-1
E2
6
5
2


7
9
8
8
10
11
12
13
13
13
13
14
15
16
17
18
19
19

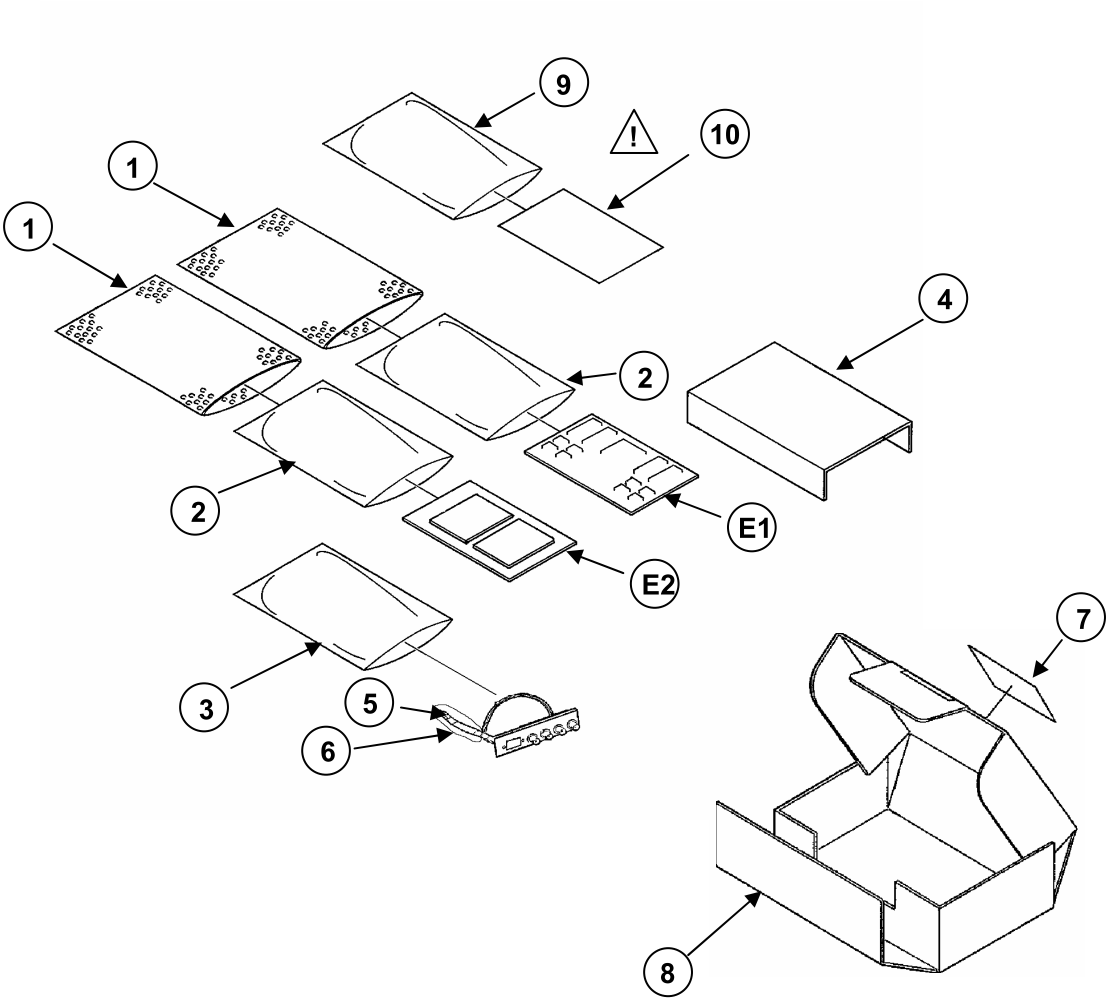
BOARD/JACK PANEL ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP6727	CONNECTOR MOUNT PLATE A	1	
2	VMP7966	CONNECTOR MOUNT PLATE B	1	
3	VMX3062	BNC CNCT HOLDER RUBBER	1	
4	VMX3064	CONNECTOR HOLDER RUBBER C	1	
5	VMX3405	CONNECTOR HOLDER RUBBER E	1	
6	XYN26+J6	SCREW	3	
7	VMP7964	BNC CONNECTOR SUPPORTER	1	
8	VMX3406	SUPPORT RUBBER (F)	2	
9	XTV3+6F	SCREW	1	
10	VMP7963	BNC CONNECTOR BASE PLATE	1	
11	VMP7965	BLIND PANEL	1	
12	VMP7958	OPTION PANEL	1	
13	K1SMBDBA0001	BNC	4	
14	XSB2+6FZ	SCREW	2	
15	VEE0E46380	COAXIAL CABLE	1	
16	VEE0E48380	COAXIAL CABLE	1	
17	VEE0E47380	COAXIAL CABLE	1	
18	VEE0E12380	COAXIAL CABLE	1	
19	VJF0300	A/C HEAD BINDER	3	
E2	VEP83634B	SGEN SDI P.C.BOARD	1	
E2-1	VEP83631A	HD SDI RX P.C.BOARD	1	FOR VEP83634B
E2-2	VEP83632A	HD SDI TX P.C.BOARD	1	FOR VEP83634B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING ASSEMBLY (AJ-YA120AG)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.


9
⚠
10
1
1
4
2
2
E1
E2
7
3
5
6
8

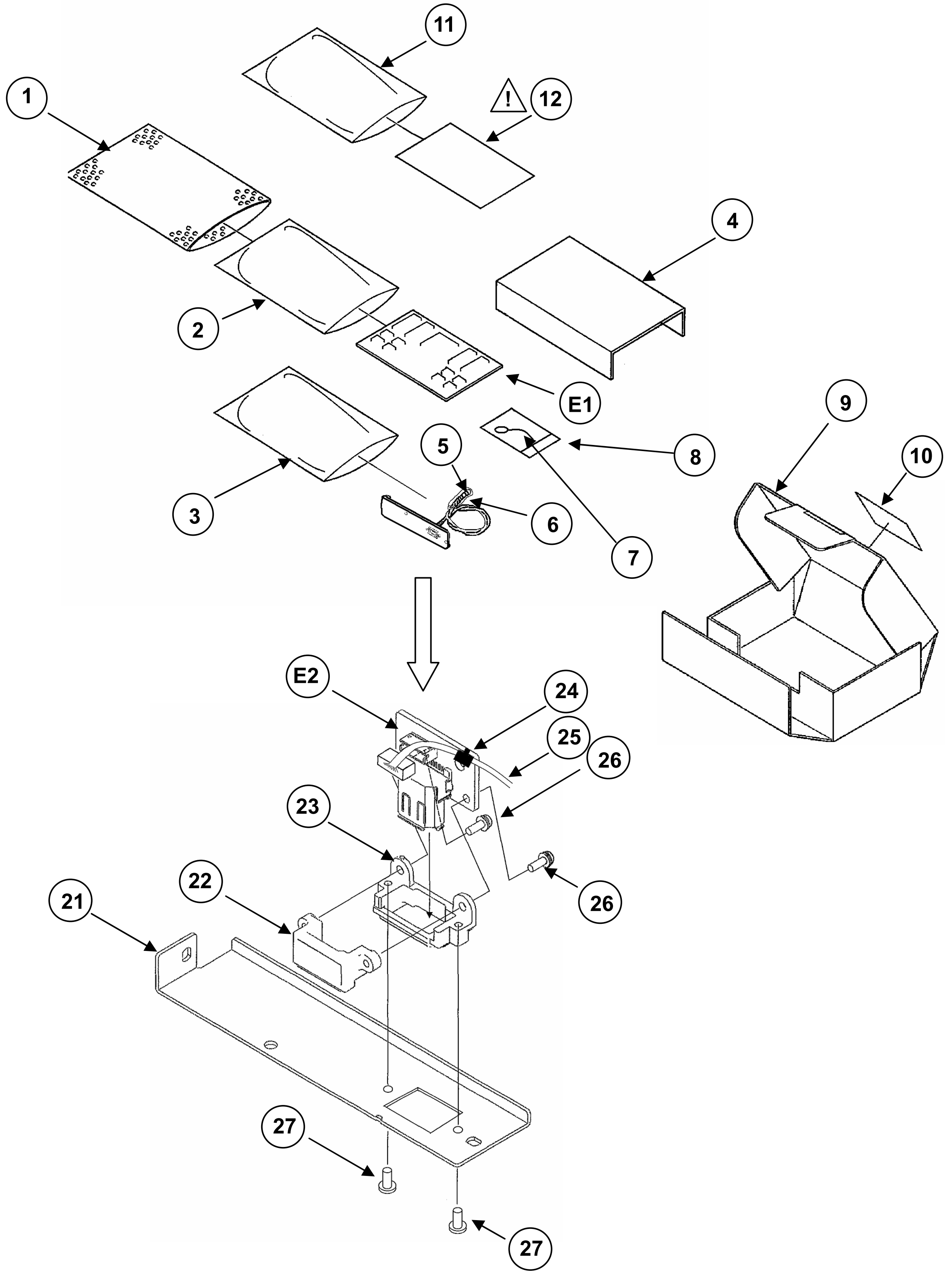
PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPF0678	CUSHION BAG	2	
2	VPF0359	CONDUCTION BAG	2	
3	VPF0679	POLYETHYLENE BAG	1	
4	VPN5312	CUSHION	1	
5	VPF1016	POLYETHYLENE BAG (INNER)	1	
6	VPF0892	POLYETHYLENE BAG (OUTER)	1	
7	VQL9822	PACKING LABEL	1	
8	VPG6296	PACKING CASE	1	
9	VPF0681	POLYETHYLENE BAG	1	
⚠ 10	VQT0L39	OPERATING INSTRUCTIONS	1	
E1	VEP83573H	I/O CONV P.C.BOARD	1	
E2	VEP83634B	SGEN SDI P.C.BOARD	1	

PACKING / JACK PANEL ASSEMBLY (AJ-YAD120AG)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

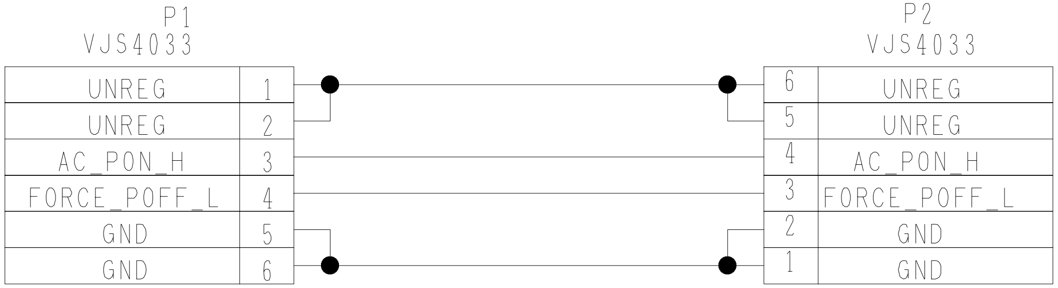

11
1
⚠ 12
4
2
E1
9
10
5
8
3
6
7
E2
24
25
26
23
22
21
26
27
27

PACKING PARTS ASSEMBLY

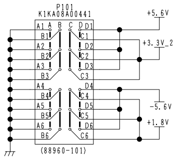
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPF0678	CUSHION BAG	1	
2	VPF0359	CONDUCTION BAG	1	
3	VPF0679	POLYETHYLENE BAG	1	
4	VPN5312	CUSHION	1	
5	VPF0508	POLYETHYLENE BAG (INNER)	1	
6	VPF0892	POLYETHYLENE BAG (OUTER)	1	
7	VJF0300	BIND	1	
8	VPF1016	POLYETHYLENE BAG	1	
9	VPG6296	PACKING CASE	1	
10	VQL9822	PACKING LABEL	1	
11	VPF0681	POLYETHYLENE BAG	1	
⚠ 12	VQT0140	OPERATING INSTRUCTIONS	1	
E1	VEP83651A	1394 IF P.C. BOARD	1	
21	VMP7959	OPTION PANEL	1	
22	VJF1490	CONNECTOR HOLDER (A)	1	
23	VJF1491	CONNECTOR HOLDER (B)	1	
24	VJF0300	BIND	1	
25	VEE0X36	DIF CABLE	1	
26	XYN2+J6	SCREW	2	
27	XSB2+6FZ	SCREW	2	
E2	VEP80D12A	CN P.C. BOARD	1	

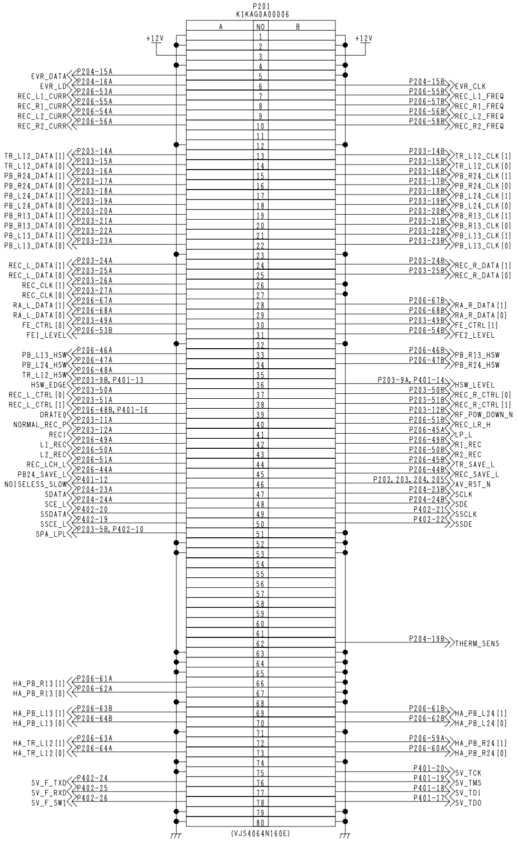
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks


P1
VJS4033
UNREG 1
UNREG 2
AC_PON_H 3
FORCE_POFF_L 4
GND 5
GND 6
P2
VJS4033
6 UNREG
5 UNREG
4 AC_PON_H
3 FORCE_POFF_L
2 GND
1 GND

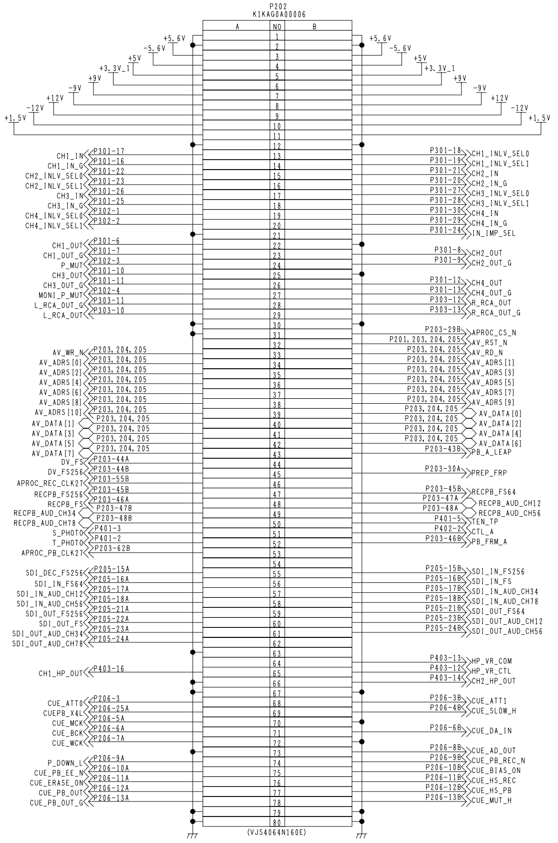
COMPONENT NAME	**POWER CONNECT**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80A88A	(1/1) **SCM075**	


P101
K1KA08A00441
A1 A B C D D1
B1 C1
A2 D2
B2 C2
A3 D3
B3 C3
A4 D4
B4 C4
A5 D5
B5 C5
A6 D6
B6 C6
(88960-101)
+5.6V
+3.3V_2
-5.6V
+1.8V

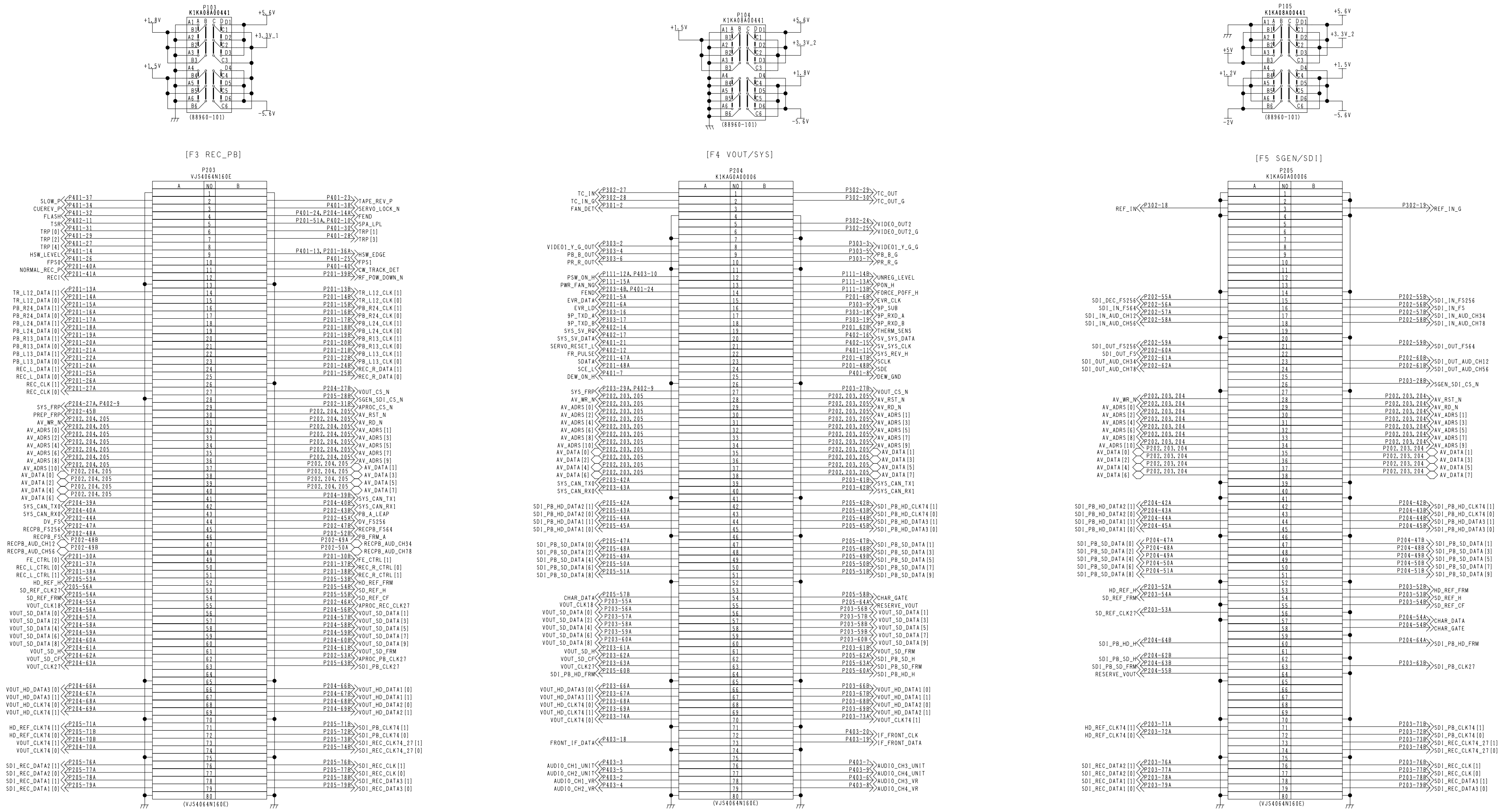
[F1 RF/EQ]


P201
K1KAG0A00006
A NO B
+12V
EVR_DATA P204-15A
EVR_LD P204-16A
REC_L1_CURR P206-53A
REC_R1_CURR P206-55A
REC_L2_CURR P206-54A
REC_R2_CURR P206-56A
TR_L12_DATA[1] P203-14A
TR_L12_DATA[0] P203-15A
PB_R24_DATA[1] P203-16A
PB_R24_DATA[0] P203-17A
PB_L24_DATA[1] P203-18A
PB_L24_DATA[0] P203-19A
PB_R13_DATA[1] P203-20A
PB_R13_DATA[0] P203-21A
PB_L13_DATA[1] P203-22A
PB_L13_DATA[0] P203-23A
REC_L_DATA[1] P203-24A
REC_L_DATA[0] P203-25A
REC_CLK[1] P203-26A
REC_CLK[0] P203-27A
RA_L_DATA[1] P206-67A
RA_L_DATA[0] P206-68A
FE_CTRL[0] P203-49A
FE1_LEVEL P206-53B
PB_L13_HSW P206-46A
PB_L24_HSW P206-47A
TR_L12_HSW P206-48A
HSW_EDGE P203-9B, P401-13
REC_L_CTRL[0] P203-50A
REC_L_CTRL[1] P203-51A
DRATE0 P206-48B, P401-16
NORMAL_REC_P P203-11A
RECI P203-12A
L1_REC P206-49A
L2_REC P206-50A
REC_LCH_L P206-51A
PB24_SAVE_L P206-44A
NOISELESS_SLOW P401-12
SDATA P204-23A
SCE_L P204-24A
SSDATA P402-20
SSCE_L P402-19
SPA_LPL P203-5B, P402-10
HA_PB_R13[1] P206-61A
HA_PB_R13[0] P206-62A
HA_PB_L13[1] P206-63B
HA_PB_L13[0] P206-64B
HA_TR_L12[1] P206-63A
HA_TR_L12[0] P206-64A
SV_F_TXD P402-24
SV_F_RXD P402-25
SV_F_SW1 P402-26
P204-15B EVR_CLK
P206-55B REC_L1_FREQ
P206-57B REC_R1_FREQ
P206-56B REC_L2_FREQ
P206-58B REC_R2_FREQ
P203-14B TR_L12_CLK[1]
P203-15B TR_L12_CLK[0]
P203-16B PB_R24_CLK[1]
P203-17B PB_R24_CLK[0]
P203-18B PB_L24_CLK[1]
P203-19B PB_L24_CLK[0]
P203-20B PB_R13_CLK[1]
P203-21B PB_R13_CLK[0]
P203-22B PB_L13_CLK[1]
P203-23B PB_L13_CLK[0]
P203-24B REC_R_DATA[1]
P203-25B REC_R_DATA[0]
P206-67B RA_R_DATA[1]
P206-68B RA_R_DATA[0]
P203-49B FE_CTRL[1]
P206-54B FE2_LEVEL
P206-46B PB_R13_HSW
P206-47B PB_R24_HSW
P203-9A, P401-14 HSW_LEVEL
P203-50B REC_R_CTRL[0]
P203-51B REC_R_CTRL[1]
P203-12B RF_POW_DOWN_N
P206-51B REC_LR_H
P206-45A LP_L
P206-49B R1_REC
P206-50B R2_REC
P206-45B TR_SAVE_L
P206-44B REC_SAVE_L
P202, 203, 204, 205 AV_RST_N
P204-23B SCLK
P204-24B SDE
P402-21 SSCLK
P402-22 SSDE
P204-19B THERM_SENS
P206-61B HA_PB_L24[1]
P206-62B HA_PB_L24[0]
P206-59A HA_PB_R24[1]
P206-60A HA_PB_R24[0]
P401-20 SV_TCK
P401-19 SV_TMS
P401-18 SV_TDI
P401-17 SV_TDO
(VJS4064N160E)

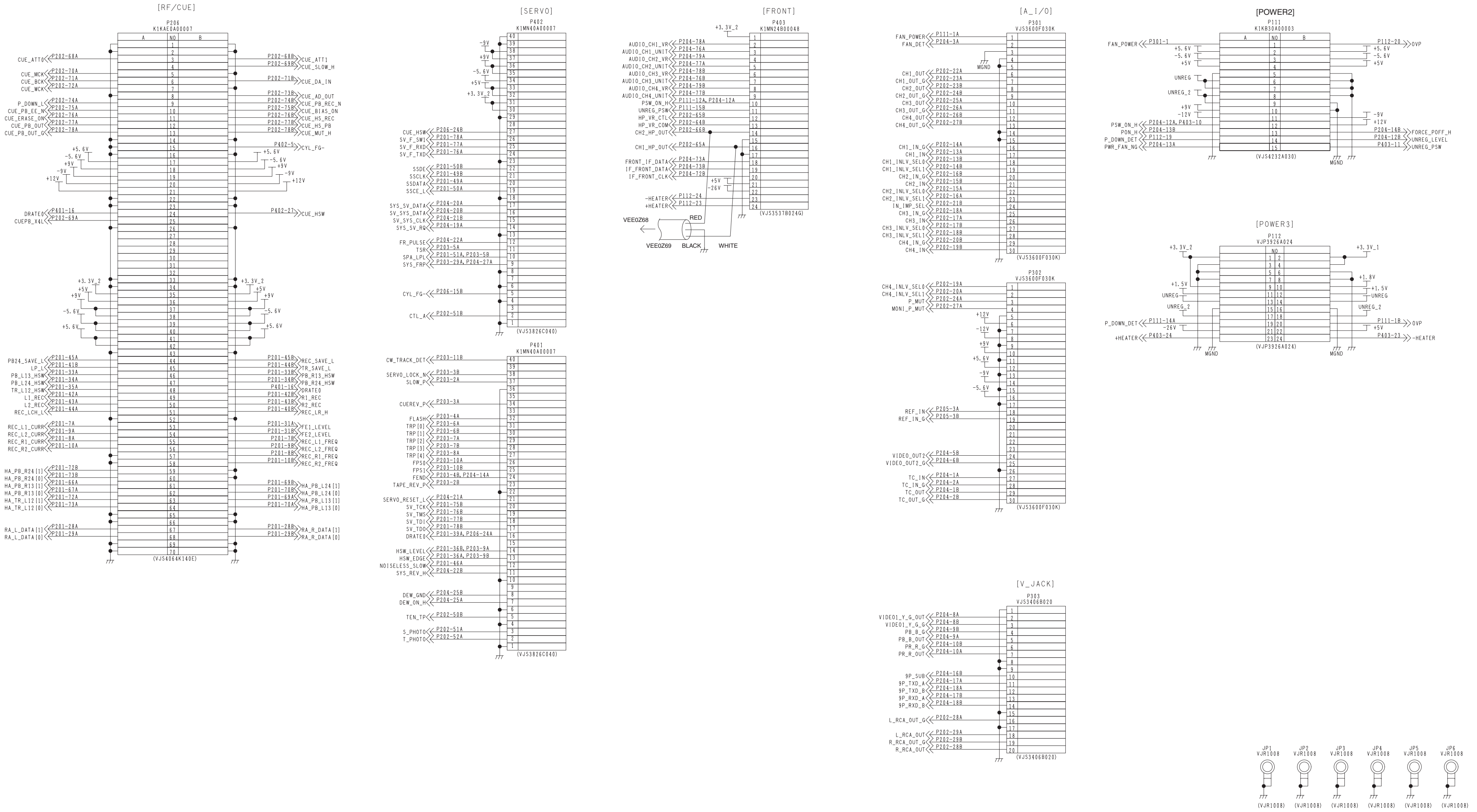
[F2 APROC]


P202
K1KAG0A00006
A NO B
+5.6V
-5.6V
+5V
+3.3V_1
+9V
-9V
+12V
-12V
+1.5V
CH1_IN P301-17
CH1_IN_G P301-16
CH2_INLV_SEL0 P301-22
CH2_INLV_SEL1 P301-23
CH3_IN P301-26
CH3_IN_G P301-25
CH4_INLV_SEL0 P302-1
CH4_INLV_SEL1 P302-2
CH1_OUT P301-6
CH1_OUT_G P301-7
P_MUT P302-3
CH3_OUT P301-10
CH3_OUT_G P301-11
MONI_P_MUT P302-4
L_RCA_OUT_G P303-11
L_RCA_OUT P303-10
AV_WR_N P203, 204, 205
AV_ADRS[0] P203, 204, 205
AV_ADRS[2] P203, 204, 205
AV_ADRS[4] P203, 204, 205
AV_ADRS[6] P203, 204, 205
AV_ADRS[8] P203, 204, 205
AV_ADRS[10] P203, 204, 205
AV_DATA[1] P203, 204, 205
AV_DATA[3] P203, 204, 205
AV_DATA[5] P203, 204, 205
AV_DATA[7] P203, 204, 205
DV_FS P203-44A
DV_FS256 P203-44B
APROC_REC_CLK27 P203-55B
RECPB_FS256 P203-45B
RECPB_FS P203-46A
RECPB_AUD_CH34 P203-47B
RECPB_AUD_CH78 P203-48B
S_PHOTO P401-3
T_PHOTO P401-2
APROC_PB_CLK27 P203-62B
SDI_DEC_FS256 P205-15A
SDI_IN_FS64 P205-16A
SDI_IN_AUD_CH12 P205-17A
SDI_IN_AUD_CH56 P205-18A
SDI_OUT_FS256 P205-21A
SDI_OUT_FS P205-22A
SDI_OUT_AUD_CH34 P205-23A
SDI_OUT_AUD_CH78 P205-24A
CH1_HP_OUT P403-16
CUE_ATT0 P206-3
CUEPB_X4L P206-25A
CUE_MCK P206-5A
CUE_BCK P206-6A
CUE_WCK P206-7A
P_DOWN_L P206-9A
CUE_PB_EE_N P206-10A
CUE_ERASE_ON P206-11A
CUE_PB_OUT P206-12A
CUE_PB_OUT_G P206-13A
P301-18 CH1_INLV_SEL0
P301-19 CH1_INLV_SEL1
P301-21 CH2_IN
P301-20 CH2_IN_G
P301-27 CH3_INLV_SEL0
P301-28 CH3_INLV_SEL1
P301-30 CH4_IN
P301-29 CH4_IN_G
P301-24 IN_IMP_SEL
P301-8 CH2_OUT
P301-9 CH2_OUT_G
P301-12 CH4_OUT
P301-13 CH4_OUT_G
P303-12 R_RCA_OUT
P303-13 R_RCA_OUT_G
P203-29B APROC_CS_N
P201, 203, 204, 205 AV_RST_N
P203, 204, 205 AV_RD_N
P203, 204, 205 AV_ADRS[1]
P203, 204, 205 AV_ADRS[3]
P203, 204, 205 AV_ADRS[5]
P203, 204, 205 AV_ADRS[7]
P203, 204, 205 AV_ADRS[9]
P203, 204, 205 AV_DATA[0]
P203, 204, 205 AV_DATA[2]
P203, 204, 205 AV_DATA[4]
P203, 204, 205 AV_DATA[6]
P203-43B PB_A_LEAP
P203-30A PREP_FRP
P203-45B RECPB_FS64
P203-47A RECPB_AUD_CH12
P203-48A RECPB_AUD_CH56
P401-5 TEN_TP
P402-2 CTL_A
P203-46B PB_FRM_A
P205-15B SDI_IN_FS256
P205-16B SDI_IN_FS
P205-17B SDI_IN_AUD_CH34
P205-18B SDI_IN_AUD_CH78
P205-21B SDI_OUT_FS64
P205-23B SDI_OUT_AUD_CH12
P205-24B SDI_OUT_AUD_CH56
P403-13 HP_VR_COM
P403-12 HP_VR_CTL
P403-14 CH2_HP_OUT
P206-3B CUE_ATT1
P206-4B CUE_SLOW_H
P206-6B CUE_DA_IN
P206-8B CUE_AD_OUT
P206-9B CUE_PB_REC_N
P206-10B CUE_BIAS_ON
P206-11B CUE_HS_REC
P206-12B CUE_HS_PB
P206-13B CUE_MUT_H
(VJS4064N160E)

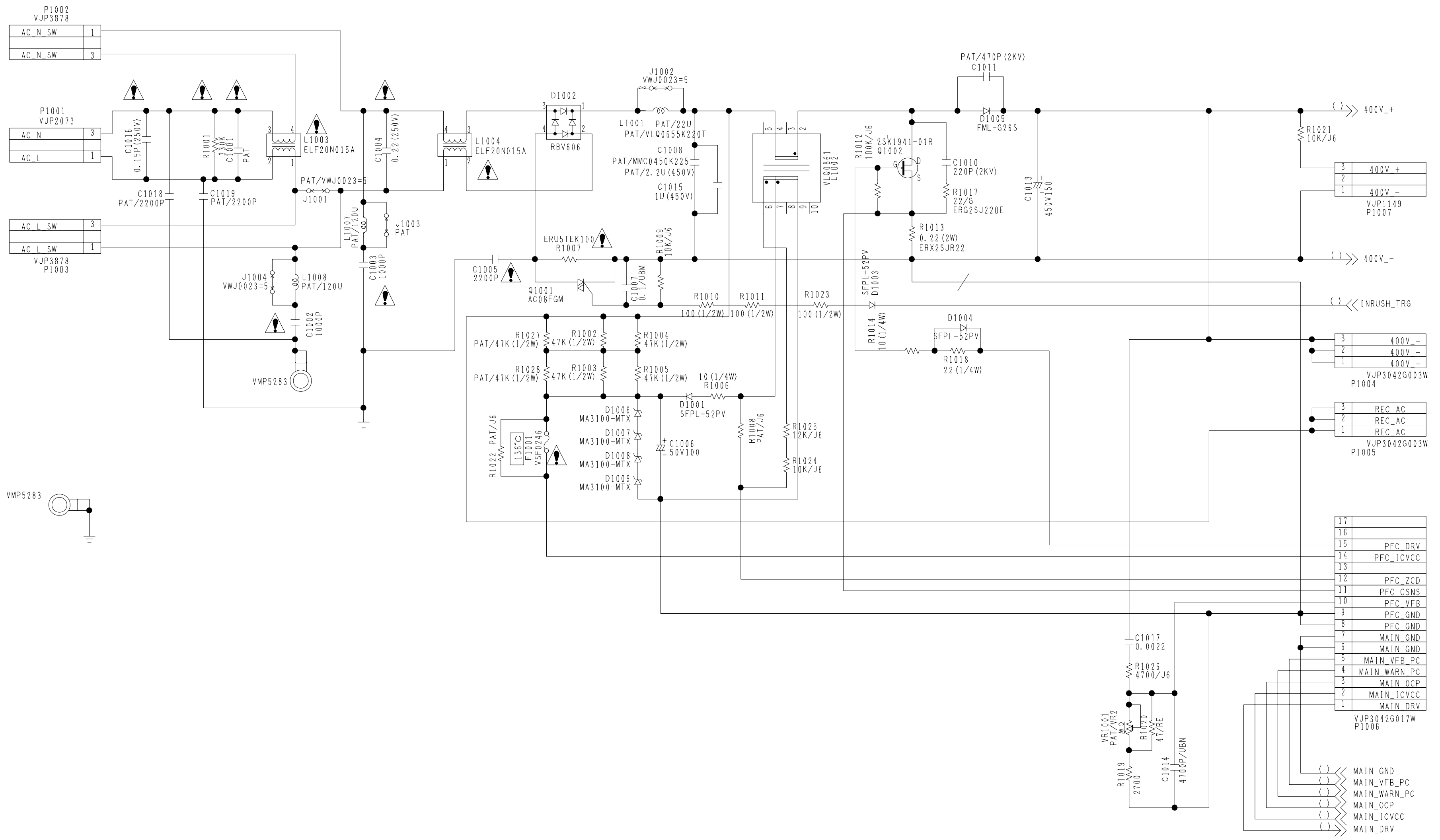
COMPONENT NAME	**MOTHER**	01/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C73B		KR 0A0012(1/3)
		SCM001


P103
K1KA08A00441
(88960-101)
P104
K1KA08A00441
(88960-101)
P105
K1KA08A00441
(88960-101)
[F3 REC_PB]
P203
VJS4064N160E
[F4 VOUT/SYS]
P204
K1KAGOA00006
[F5 SGEN/SDI]
P205
K1KAGOA00006
(VJS4064N160E)

COMPONENT NAME	**MOTHER**	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C73B	KR 0A0012(2/3)	
	SCM002	


[RF/CUE]
P206
K1KAE0A00007
(VJS4064K140E)
[SERVO]
P402
K1MN40A00007
(VJS3826C040)
P401
K1MN40A00007
(VJS3826C040)
[FRONT]
P403
K1MN24B00048
(VJS3537B024G)
VEE0Z68
VEE0Z69
RED
BLACK
WHITE
[A_I/O]
P301
VJS3600F030K
P302
VJS3600F030K
[V_JACK]
P303
VJS3406B020
[POWER2]
P111
K1KB30A00003
(VJS4232A030)
[POWER3]
P112
VJP3926A024
JP1
JP2
JP3
JP4
JP5
JP6
VJR1008

COMPONENT NAME	**MOTHER**	03/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C73B	KR 0A0012(3/3)	
	SCM003	


P1002
VJP3878
AC_N_SW
AC_N_SW
P1001
VJP2073
AC_N
AC_L
AC_L_SW
AC_L_SW
VJP3878
P1003
C1016
0.15P(250V)
R1001
330K
C1001
PAT
L1003
ELF20N015A
C1004
0.22(250V)
L1004
ELF20N015A
D1002
RBV606
J1002
VWJ0023=5
L1001 PAT/22U
PAT/VLQ0655K220T
C1008
PAT/MMC0450K225
PAT/2.2U(450V)
C1015
1U(450V)
VLQ0861
L1002
PAT/470P(2KV)
C1011
D1005
FML-G26S
R1012
100K/J6
2SK1941-01R
Q1002
C1010
220P(2KV)
R1017
22/G
ERG2SJ220E
R1013
0.22(2W)
ERX2SJR22
C1013
450V150
R1021
10K/J6
400V_+
400V_+
400V_-
VJP1149
P1007
400V_-
INRUSH_TRG
C1018
PAT/2200P
C1019
PAT/2200P
PAT/VWJ0023=5
J1001
L1007
PAT/120U
J1003
PAT
C1003
1000P
J1004
VWJ0023=5
L1008
PAT/120U
C1002
1000P
VMP5283
ERU5TEK100
R1007
C1005
2200P
Q1001
AC08FGM
C1007
0.1/UBM
R1009
10K/J6
R1010
100(1/2W)
R1011
100(1/2W)
R1023
100(1/2W)
SFPL-52PV
D1003
R1014
10(1/4W)
D1004
SFPL-52PV
R1018
22(1/4W)
R1027
PAT/47K(1/2W)
R1002
47K(1/2W)
R1004
47K(1/2W)
R1028
PAT/47K(1/2W)
R1003
47K(1/2W)
R1005
47K(1/2W)
10(1/4W)
R1006
D1001
SFPL-52PV
D1006
MA3100-MTX
D1007
MA3100-MTX
D1008
MA3100-MTX
D1009
MA3100-MTX
C1006
50V100
R1008
PAT/J6
R1025
12K/J6
R1024
10K/J6
R1022 PAT/J6
136°C
F1001
VSF0246
VMP5283
400V_+
400V_+
400V_+
VJP3042G003W
P1004
REC_AC
REC_AC
REC_AC
VJP3042G003W
P1005
PFC_DRV
PFC_ICVCC
PFC_ZCD
PFC_CSNS
PFC_VFB
PFC_GND
PFC_GND
MAIN_GND
MAIN_GND
MAIN_VFB_PC
MAIN_WARN_PC
MAIN_OCP
MAIN_ICVCC
MAIN_DRV
VJP3042G017W
P1006
C1017
0.0022
R1026
4700/J6
VR1001
PAT/VR2
W2
R1020
47/RE
C1014
4700P/UBN
R1019
2700
MAIN_GND
MAIN_VFB_PC
MAIN_WARN_PC
MAIN_OCP
MAIN_ICVCC
MAIN_DRV
A
B
C
D
E
F
G
H
I
J
1
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14

IMPORTANT SAFETY NOTICE:
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When replacing any of these components, use only the same type.

⚠ 警 告

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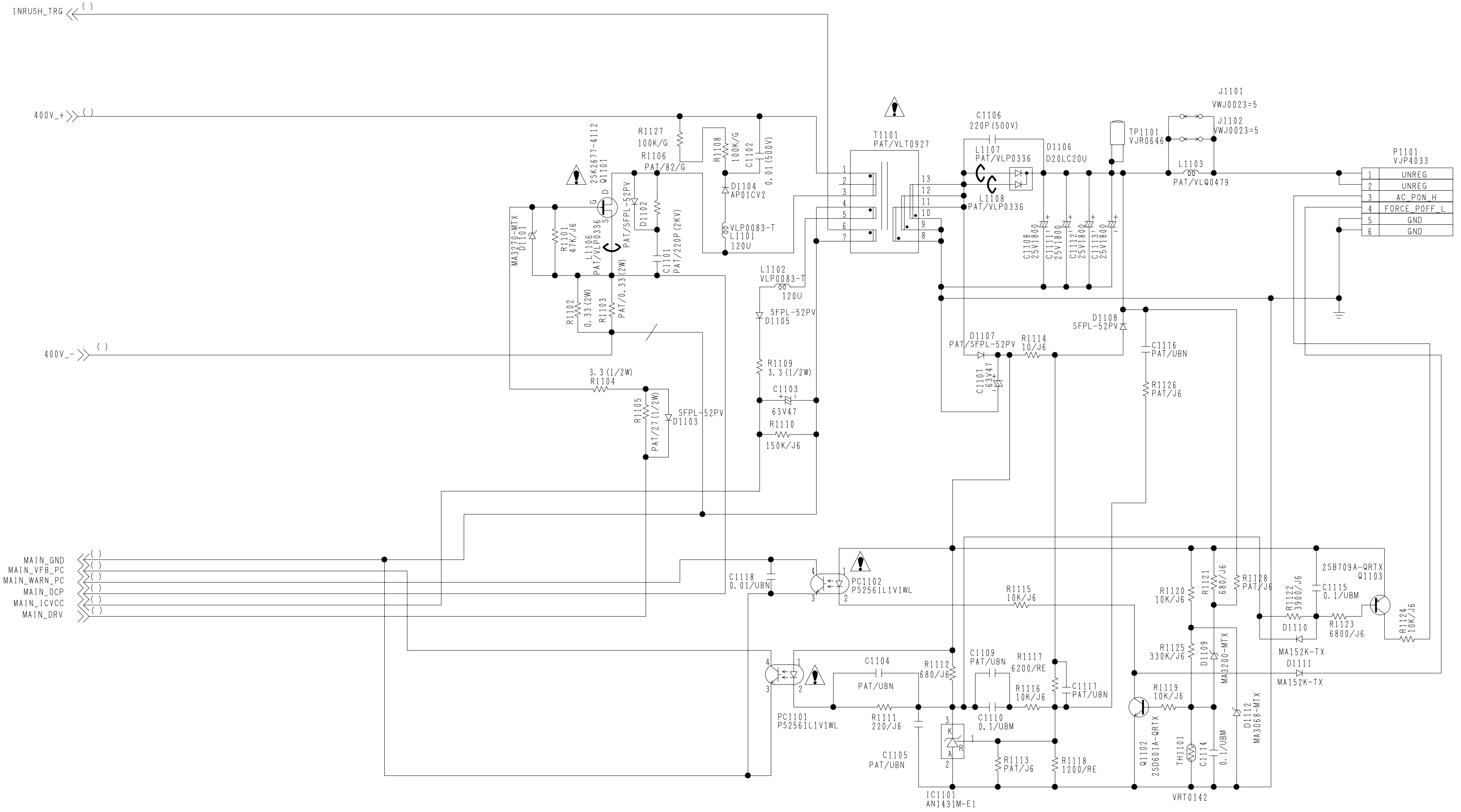
COMPONENT NAME	**POWER1**	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81203E	KR 1D27(1/2)	
	SCM064	


INRUSH_TRG
400V_+
400V_-
MAIN_GND
MAIN_VFB_PC
MAIN_WARN_PC
MAIN_OCP
MAIN_ICVCC
MAIN_DRV
2SK2677-4112
Q1101
G
D
S
MA3270-MTX
D1101
R1101
47K/J6
L1106
PAT/VLP0336
PAT/SFPL-52PV
D1102
R1127
100K/G
R1106
PAT/82/G
R1108
100K/G
C1102
0.01(500V)
D1104
AP01CV2
VLP0083-T
L1101
120U
C1101
PAT/220P(2KV)
R1102
0.33(2W)
R1103
PAT/0.33(2W)
L1102
VLP0083-T
120U
SFPL-52PV
D1105
R1109
3.3(1/2W)
C1103
63V47
R1110
150K/J6
3.3(1/2W)
R1104
R1105
PAT/27(1/2W)
SFPL-52PV
D1103
T1101
PAT/VLT0927
1
2
3
4
5
6
7
13
12
11
10
9
8
C1106
220P(500V)
L1107
PAT/VLP0336
L1108
PAT/VLP0336
D1106
D20LC20U
C1108
25V1800
C1111
25V1800
C1112
25V1800
C1113
25V1800
TP1101
VJR0646
J1101
VWJ0023=5
J1102
VWJ0023=5
L1103
PAT/VLQ0479
P1101
VJP4033
1 UNREG
2 UNREG
3 AC_PON_H
4 FORCE_POFF_L
5 GND
6 GND
D1107
PAT/SFPL-52PV
C1107
63V47
R1114
10/J6
D1108
SFPL-52PV
C1116
PAT/UBN
R1126
PAT/J6
C1118
0.01/UBN
PC1102
PS2561L1V1WL
R1115
10K/J6
PC1101
PS2561L1V1WL
C1104
PAT/UBN
R1111
220/J6
C1105
PAT/UBN
R1112
680/J6
IC1101
AN1431M-E1
K
A
R
C1109
PAT/UBN
C1110
0.1/UBM
R1117
6200/RE
R1116
10K/J6
C1117
PAT/UBN
R1113
PAT/J6
R1118
1200/RE
Q1102
2SD601A-QRTX
R1119
10K/J6
R1120
10K/J6
R1121
680/J6
R1125
330K/J6
D1109
MA3200-MTX
TH1101
C1114
0.1/UBM
VRT0142
D1112
MA3068-MTX
R1128
PAT/J6
R1122
3900/J6
C1115
0.1/UBM
D1110
MA152K-TX
D1111
MA152K-TX
R1123
6800/J6
2SB709A-QRTX
Q1103
R1124
10K/J6

COMPONENT NAME	POWER1		02/02
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81203E		KR 1D27(2/2)	
		SCM065	

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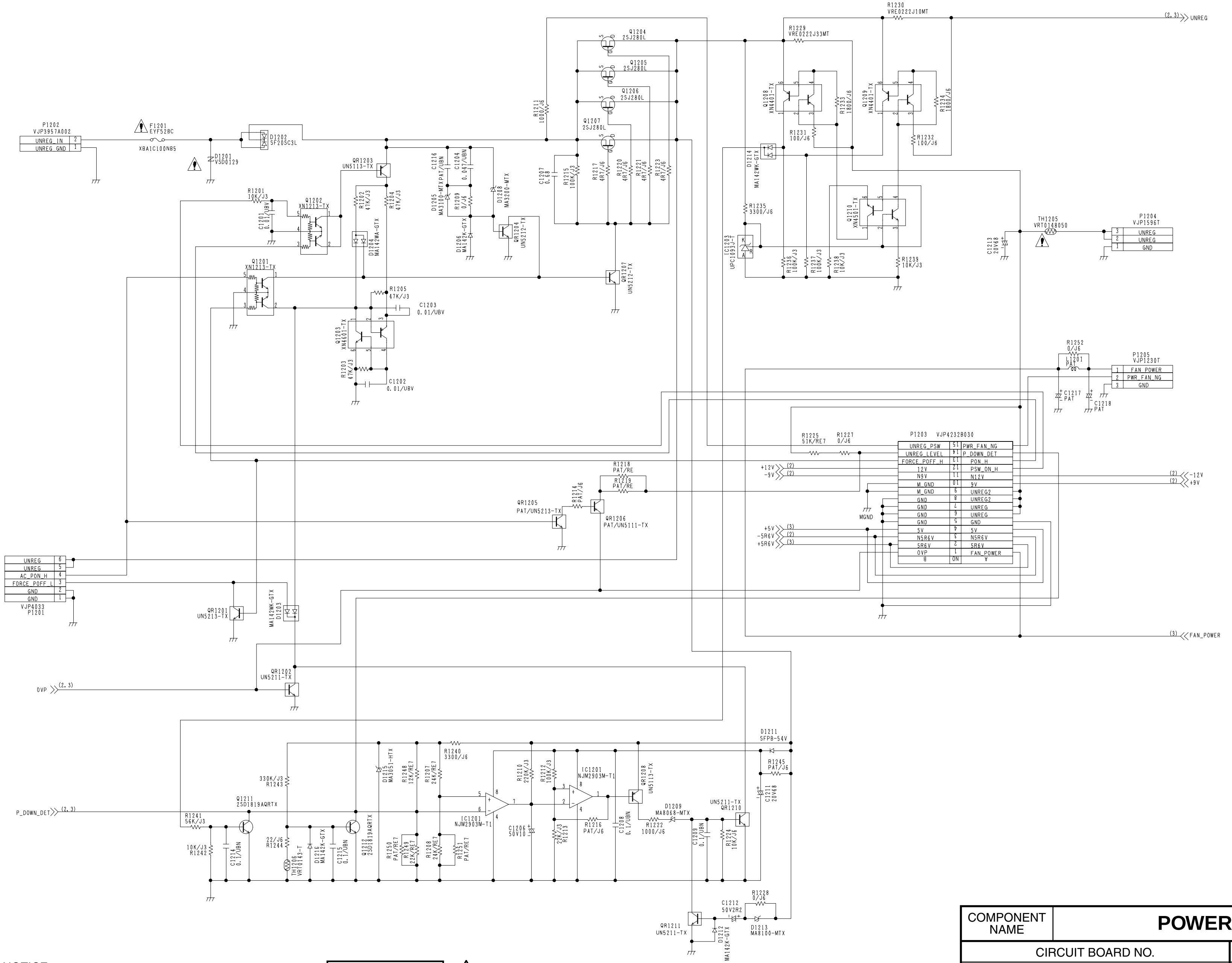
P1202
VJP3957A002
UNREG_IN
UNREG_GND
F1201
EYF52BC
XBA1C100NB5
D1201
VSD0129
D1202
SF20SC3L
Q1204
2SJ280L
Q1205
2SJ280L
Q1206
2SJ280L
Q1207
2SJ280L
R1230
VRE0222J10MT
R1229
VRE0222J33MT
UNREG
Q1208
XN4401-TX
Q1209
XN4401-TX
Q1210
XN4501-TX
IC1203
UPC1093J-T
D1214
MA142WK-GTX
TH1205
VRT0148050
P1204
VJP1596T
GND
QR1203
UN5113-TX
R1201
10K/J3
Q1202
XN1213-TX
Q1201
XN1213-TX
Q1203
XN4601-TX
R1205
47K/J3
C1203
0.01/UBV
C1202
0.01/UBV
QR1204
UN5212-TX
QR1207
UN5212-TX
D1208
MA3200-MTX
R1252
0/J6
L1201
P1205
VJP1230T
FAN_POWER
PWR_FAN_NG
C1217
C1218
PAT
R1225
51K/RE7
R1227
0/J6
P1203
VJP4232B030
UNREG_PSW
UNREG_LEVEL
FORCE_POFF_H
12V
N9V
M_GND
5V
N5R6V
5R6V
OVP
PON_H
PSW_ON_H
N12V
9V
UNREG2
P_DOWN_DET
+12V
-9V
-12V
+9V
MGND
+5V
-5R6V
+5R6V
R1218
PAT/RE
R1219
PAT/RE
QR1205
PAT/UN5213-TX
QR1206
PAT/UN5111-TX
AC_PON_H
FORCE_POFF_L
VJP4033
P1201
QR1201
UN5213-TX
D1203
MA142WK-GTX
QR1202
UN5211-TX
OVP
P_DOWN_DET
Q1211
2SD1819AQRTX
Q1212
2SD1819AQRTX
R1241
56K/J3
R1242
10K/J3
C1214
0.1/UBN
TH1206
VRT0143-T
D1216
MA142K-GTX
D1215
MA3051-HTX
R1240
3300/J6
IC1201
NJM2903M-T1
C1206
50V10
QR1208
UN5113-TX
D1209
MA8068-MTX
R1222
1000/J6
QR1210
UN5211-TX
D1211
SFPB-54V
R1245
PAT/J6
C1211
20V68
QR1211
UN5211-TX
D1212
MA142K-GTX
C1212
50V2R2
R1228
0/J6
D1213
MA8100-MTX
FAN_POWER

COMPONENT NAME	POWER2	01/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81219B	KR 1E79(1/4) SCM067	

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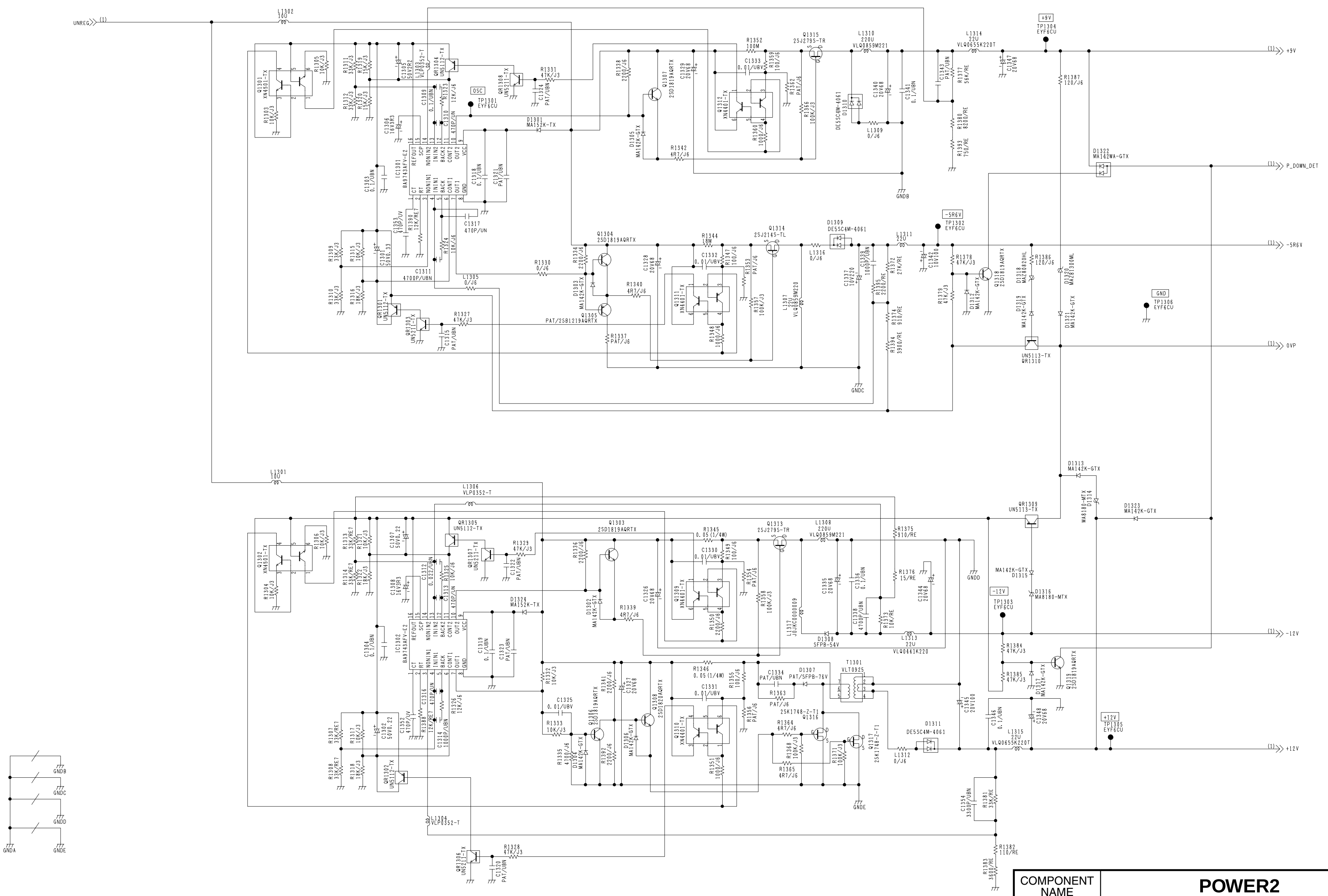

UNREG
+9V
P_DOWN_DET
-5R6V
OVP
-12V
+12V
IC1301 BA9743AFV-E2
IC1302 BA9743AFV-E2
T1301 VLT0925
TP1301 EYF6CU
TP1302 EYF6CU
TP1303 EYF6CU
TP1304 EYF6CU
TP1305 EYF6CU
TP1306 EYF6CU
OSC
GND
GNDA
GNDB
GNDC
GNDD
GNDE
L1301 10U
L1302 10U
Q1315 2SJ279S-TR
Q1314 2SJ214S-TL
Q1313 2SJ279S-TR
Q1316 2SK1748-Z-T1
Q1317 2SK1748-Z-T1
QR1310 UN5113-TX
QR1309 UN5113-TX
D1322 MA142WA-GTX
D1313 MA142K-GTX
D1323 MA142K-GTX
D1311 DESSC4M-4061
D1309 DESSC4M-4061

COMPONENT NAME	POWER2	02/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP81219B		KR 1E79(2/4)
		SCM068

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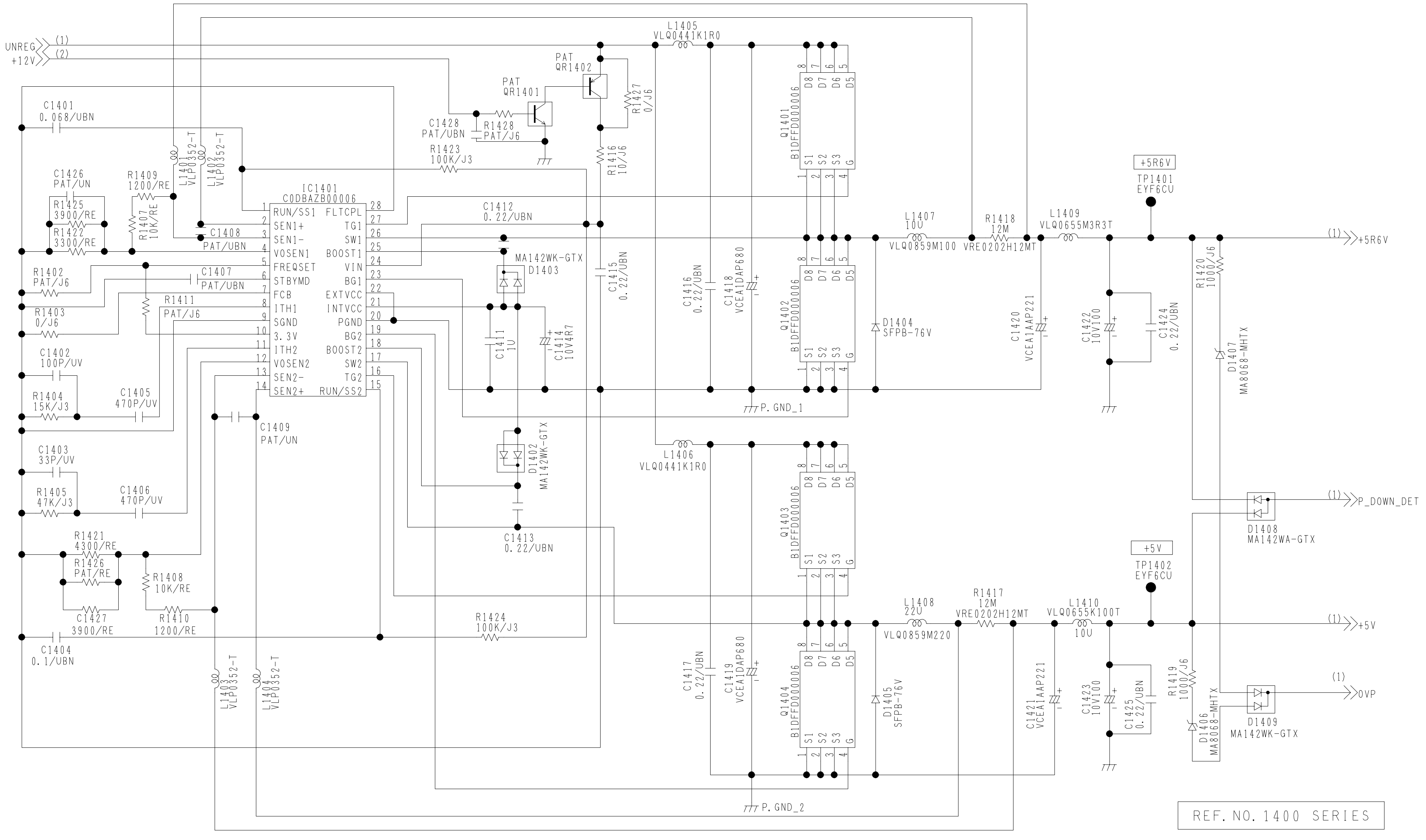
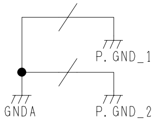

UNREG
+12V
(1)
(2)
C1401
0.068/UBN
C1426
PAT/UN
R1425
3900/RE
R1422
3300/RE
R1409
1200/RE
R1407
10K/RE
L1401
VLP0352-T
L1402
VLP0352-T
C1408
PAT/UBN
R1402
PAT/J6
R1403
0/J6
C1407
PAT/UBN
R1411
PAT/J6
C1402
100P/UV
R1404
15K/J3
C1405
470P/UV
C1409
PAT/UN
C1403
33P/UV
R1405
47K/J3
C1406
470P/UV
R1421
4300/RE
R1426
PAT/RE
R1408
10K/RE
C1427
3900/RE
R1410
1200/RE
C1404
0.1/UBN
R1424
100K/J3
L1403
VLP0352-T
L1404
VLP0352-T
IC1401
C0DBAZB00006
1 RUN/SS1
2 SEN1+
3 SEN1-
4 VOSEN1
5 FREQSET
6 STBYMD
7 FCB
8 ITH1
9 SGND
10 3.3V
11 ITH2
12 VOSEN2
13 SEN2-
14 SEN2+
28 FLTCPL
27 TG1
26 SW1
25 BOOST1
24 VIN
23 BG1
22 EXTVCC
21 INTVCC
20 PGND
19 BG2
18 BOOST2
17 SW2
16 TG2
15 RUN/SS2
C1428
PAT/UBN
R1428
PAT/J6
PAT
QR1401
PAT
QR1402
R1427
0/J6
R1416
10/J6
R1423
100K/J3
C1412
0.22/UBN
MA142WK-GTX
D1403
C1411
1U
C1414
10V4R7
C1415
0.22/UBN
D1402
MA142WK-GTX
C1413
0.22/UBN
L1405
VLQ0441K1R0
C1416
0.22/UBN
C1418
VCEA1DAP680
Q1401
B1DFFD000006
Q1402
B1DFFD000006
D8 D7 D6 D5
S1 S2 S3 G
D1404
SFPB-76V
P.GND_1
L1407
10U
VLQ0859M100
R1418
12M
VRE0202H12MT
C1420
VCEA1AAP221
L1409
VLQ0655M3R3T
+5R6V
TP1401
EYF6CU
C1422
10V100
C1424
0.22/UBN
R1420
1000/J6
D1407
MA8068-MHTX
(1) +5R6V
L1406
VLQ0441K1R0
Q1403
B1DFFD000006
Q1404
B1DFFD000006
C1417
0.22/UBN
C1419
VCEA1DAP680
D1405
SFPB-76V
L1408
22U
VLQ0859M220
R1417
12M
VRE0202H12MT
C1421
VCEA1AAP221
L1410
VLQ0655K100T
10U
+5V
TP1402
EYF6CU
C1423
10V100
C1425
0.22/UBN
R1419
1000/J6
D1406
MA8068-MHTX
D1408
MA142WA-GTX
D1409
MA142WK-GTX
(1) P_DOWN_DET
(1) +5V
(1) OVP
P.GND_2
REF.NO.1400 SERIES


P.GND_1
GNDA
P.GND_2

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COMPONENT NAME	POWER2	03/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81219B	KR 1E79(3/4)	
	SCM069	

A B C D E F G H I J

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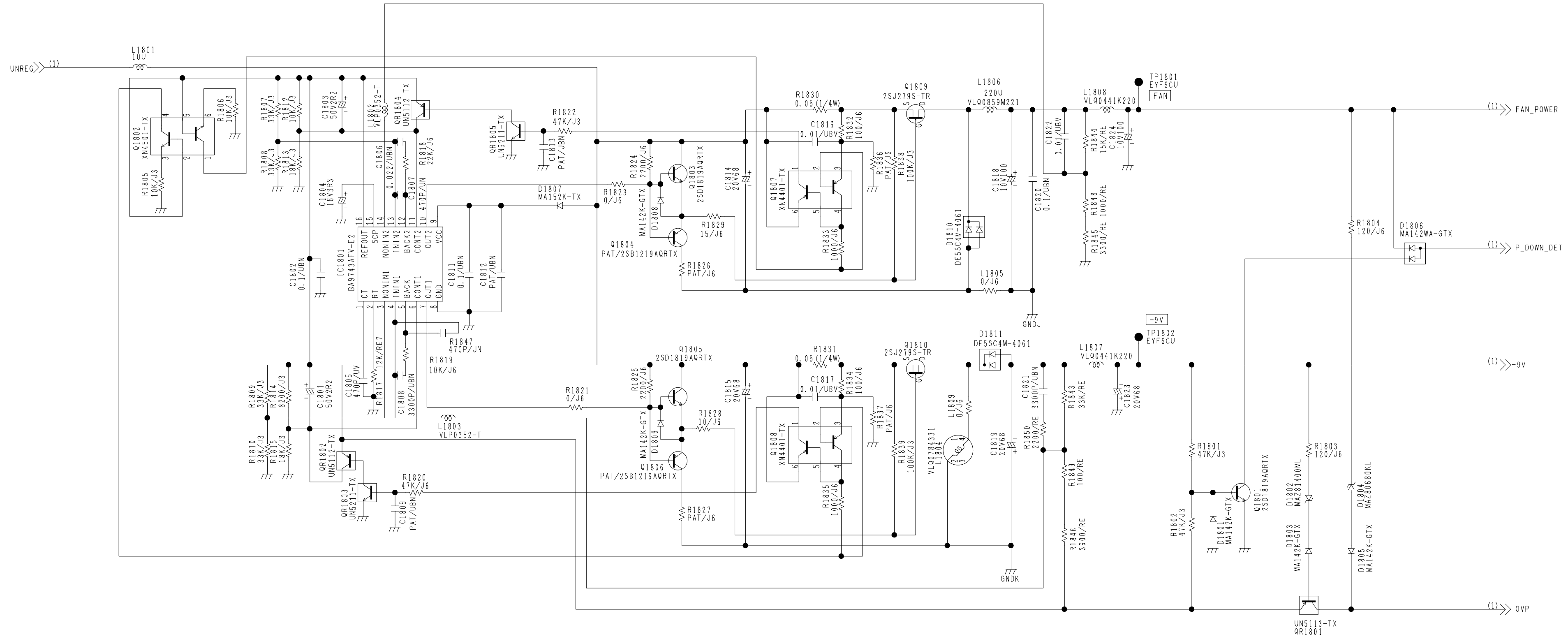
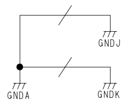

UNREG (1)
L1801 10U
Q1802 XN4501-TX
R1805 10K/J3
R1806 10K/J3
R1807 33K/J3
R1812 10K/J3
R1808 33K/J3
R1813 18K/J3
C1803 50V2R2
L1802 VLP0352-T
QR1804 UN5112-TX
C1806 0.022/UBN
R1818 22K/J6
C1807 470P/UN
C1804 16V3R3
QR1805 UN5211-TX
R1822 47K/J3
C1813 PAT/UBN
D1807 MA152K-TX
R1823 0/J6
IC1801 BA9743AFV-E2
REFOUT SCP NONIN2 ININ2 BACK2 CONT2 OUT2 VCC
CT RT NONIN1 ININ1 BACK CONT1 OUT1 GND
C1802 0.1/UBN
C1811 0.1/UBN
C1812 PAT/UBN
R1847 470P/UN
R1819 10K/J6
R1817 12K/RE7
C1805 470P/UV
C1808 3300P/UBN
R1809 33K/J3
R1814 8200/J3
C1801 50V2R2
R1810 33K/J3
R1815 18K/J3
QR1802 UN5112-TX
QR1803 UN5211-TX
R1820 47K/J6
C1809 PAT/UBN
L1803 VLP0352-T
R1821 0/J6
R1824 2200/J6
Q1803 2SD1819AQRTX
D1808 MA142K-GTX
Q1804 PAT/2SB1219AQRTX
R1829 15/J6
R1826 PAT/J6
C1814 20V68
R1830 0.05(1/4W)
C1816 0.01/UBV
R1832 100/J6
Q1807 XN4401-TX
R1833 1000/J6
R1836 PAT/J6
R1838 100K/J3
Q1809 2SJ279S-TR
L1806 220U VLQ0859M221
D1810 DE5SC4M-4061
L1805 0/J6
C1818 10V100
C1820 0.1/UBN
GNDJ
C1822 0.01/UBV
R1844 15K/RE
R1848 1000/RE
R1845 3300/RE
L1808 VLQ0441K220
C1824 10V100
TP1801 EYF6CU
FAN
(1) FAN_POWER
R1804 120/J6
D1806 MA142WA-GTX
(1) P_DOWN_DET
Q1805 2SD1819AQRTX
R1825 2200/J6
D1809 MA142K-GTX
Q1806 PAT/2SB1219AQRTX
R1828 10/J6
R1827 PAT/J6
C1815 20V68
R1831 0.05(1/4W)
C1817 0.01/UBV
R1834 100/J6
Q1808 XN4401-TX
R1835 1000/J6
R1837 PAT/J6
R1839 100K/J3
Q1810 2SJ279S-TR
L1809 0/J6
L1804 VLQ0784331
D1811 DE5SC4M-4061
C1819 20V68
GNDK
C1821 3300P/UBN
R1850 2200/RE
R1843 33K/RE
R1849 100/RE
R1846 3900/RE
L1807 VLQ0441K220
C1823 20V68
-9V
TP1802 EYF6CU
(1) -9V
R1801 47K/J3
R1802 47K/J3
D1801 MA142K-GTX
Q1801 2SD1819AQRTX
R1803 120/J6
D1802 MAZ81400ML
D1803 MA142K-GTX
D1804 MAZ80680KL
D1805 MA142K-GTX
UN5113-TX QR1801
(1) OVP


GNDJ
GNDA
GNDK

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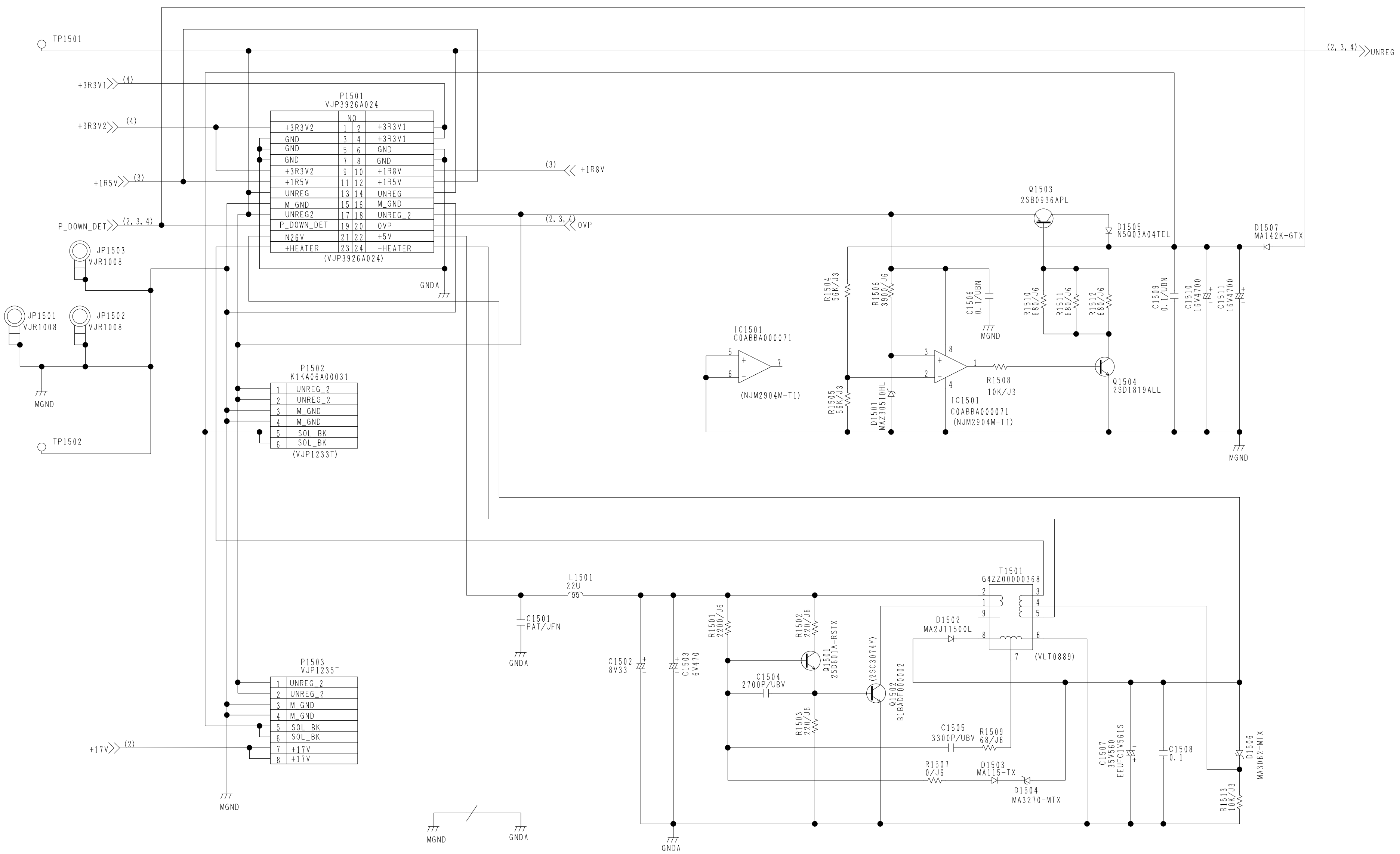
COMPONENT NAME	POWER2	04/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81219B	KR 1E79(4/4)	
	SCM070	

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14


TP1501
+3R3V1 (4)
+3R3V2 (4)
+1R5V (3)
P_DOWN_DET (2, 3, 4)
JP1503 VJR1008
JP1501 VJR1008
JP1502 VJR1008
MGND
TP1502
P1501 VJP3926A024
NO
+3R3V2 1 2 +3R3V1
GND 3 4 +3R3V1
GND 5 6 GND
GND 7 8 GND
+3R3V2 9 10 +1R8V
+1R5V 11 12 +1R5V
UNREG 13 14 UNREG
M_GND 15 16 M_GND
UNREG2 17 18 UNREG_2
P_DOWN_DET 19 20 OVP
N26V 21 22 +5V
+HEATER 23 24 -HEATER
(VJP3926A024)
GNDA
(3) +1R8V
(2, 3, 4) OVP
(2, 3, 4) UNREG
P1502 K1KA06A00031
1 UNREG_2
2 UNREG_2
3 M_GND
4 M_GND
5 SOL_BK
6 SOL_BK
(VJP1233T)
P1503 VJP1235T
1 UNREG_2
2 UNREG_2
3 M_GND
4 M_GND
5 SOL_BK
6 SOL_BK
7 +17V
8 +17V
+17V (2)
MGND
MGND
GNDA
IC1501 C0ABBA000071
(NJM2904M-T1)
Q1503 2SB0936APL
D1505 NSQ03A04TEL
D1507 MA142K-GTX
R1504 56K/J3
R1506 3900/J6
C1506 0.1/UBN
MGND
R1510 680/J6
R1511 680/J6
R1512 680/J6
C1509 0.1/UBN
C1510 16V4700
C1511 16V4700
R1505 56K/J3
D1501 MAZ30510HL
IC1501 C0ABBA000071 (NJM2904M-T1)
R1508 10K/J3
Q1504 2SD1819ALL
MGND
L1501 22U
C1501 PAT/UFN
GNDA
C1502 8V33
C1503 6V470
R1501 2200/J6
R1502 220/J6
Q1501 2SD601A-RSTX
C1504 2700P/UBV
R1503 220/J6
Q1502 B1BADF000002 (2SC3074Y)
T1501 G4ZZ00000368
D1502 MA2J11500L
(VLT0889)
C1505 3300P/UBV
R1509 68/J6
R1507 0/J6
D1503 MA115-TX
D1504 MA3270-MTX
C1507 35V560 EEUFC1V561S
C1508 0.1
D1506 MA3062-MTX
R1513 10K/J3
GNDA
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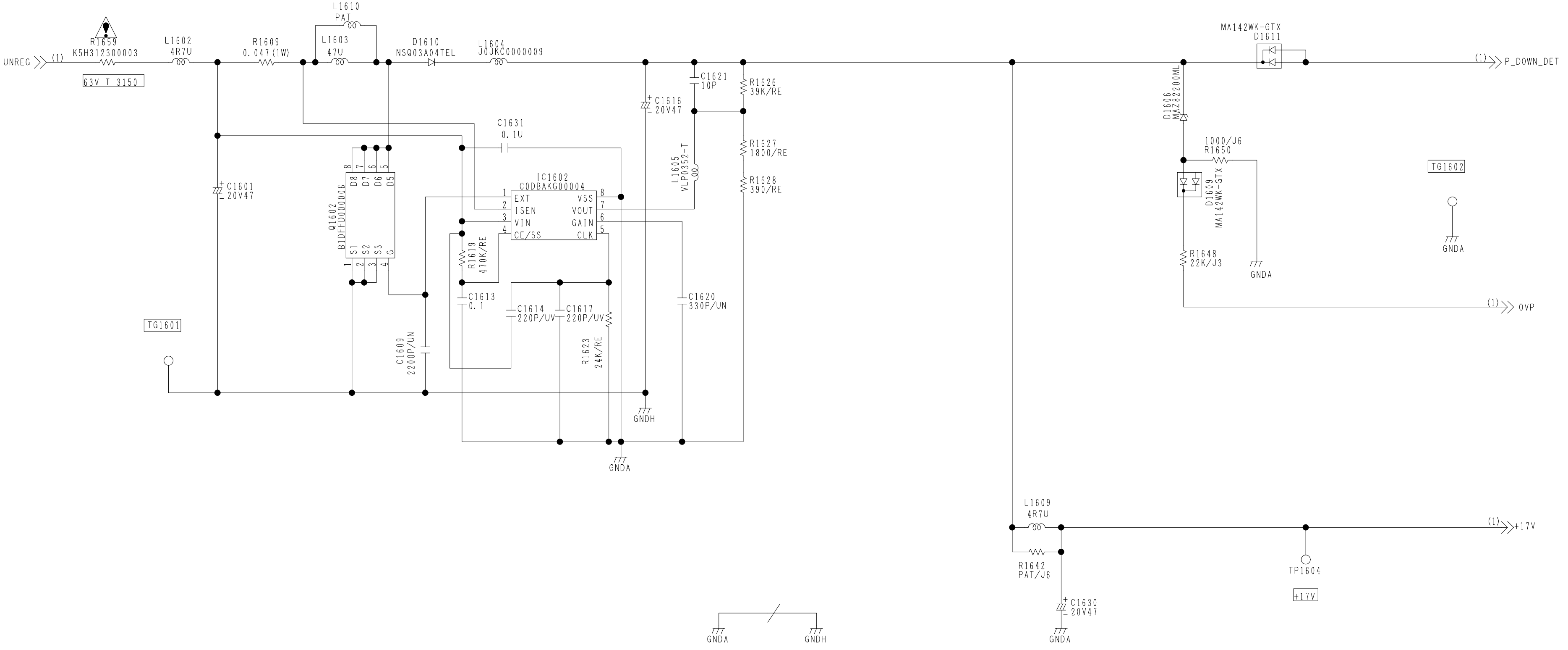
COMPONENT NAME	POWER 3	01/4
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81232B	KR 1A0081(1/4)	
	SCM071	


UNREG
(1)
R1659
K5H312300003
63V T 3150
L1602
4R7U
R1609
0.047(1W)
L1610
PAT
L1603
47U
D1610
NSQ03A04TEL
L1604
J0JKC0000009
C1601
20V47
Q1602
B1DFFD000006
D8 D7 D6 D5
S1 S2 S3 G
1 2 3 4
8 7 6 5
C1631
0.1U
IC1602
C0DBAKG00004
EXT
ISEN
VIN
CE/SS
VSS
VOUT
GAIN
CLK
R1619
470K/RE
C1613
0.1
C1609
2200P/UN
C1614
220P/UV
C1617
220P/UV
R1623
24K/RE
C1620
330P/UN
C1616
20V47
C1621
10P
L1605
VLP0352-T
R1626
39K/RE
R1627
1800/RE
R1628
390/RE
TG1601
GNDH
GNDA
MA142WK-GTX
D1611
(1)
P_DOWN_DET
D1606
MAZ82200ML
1000/J6
R1650
D1609
MA142WK-GTX
R1648
22K/J3
GNDA
TG1602
GNDA
(1)
OVP
L1609
4R7U
R1642
PAT/J6
C1630
20V47
GNDA
TP1604
+17V
(1)
+17V
GNDA
GNDH

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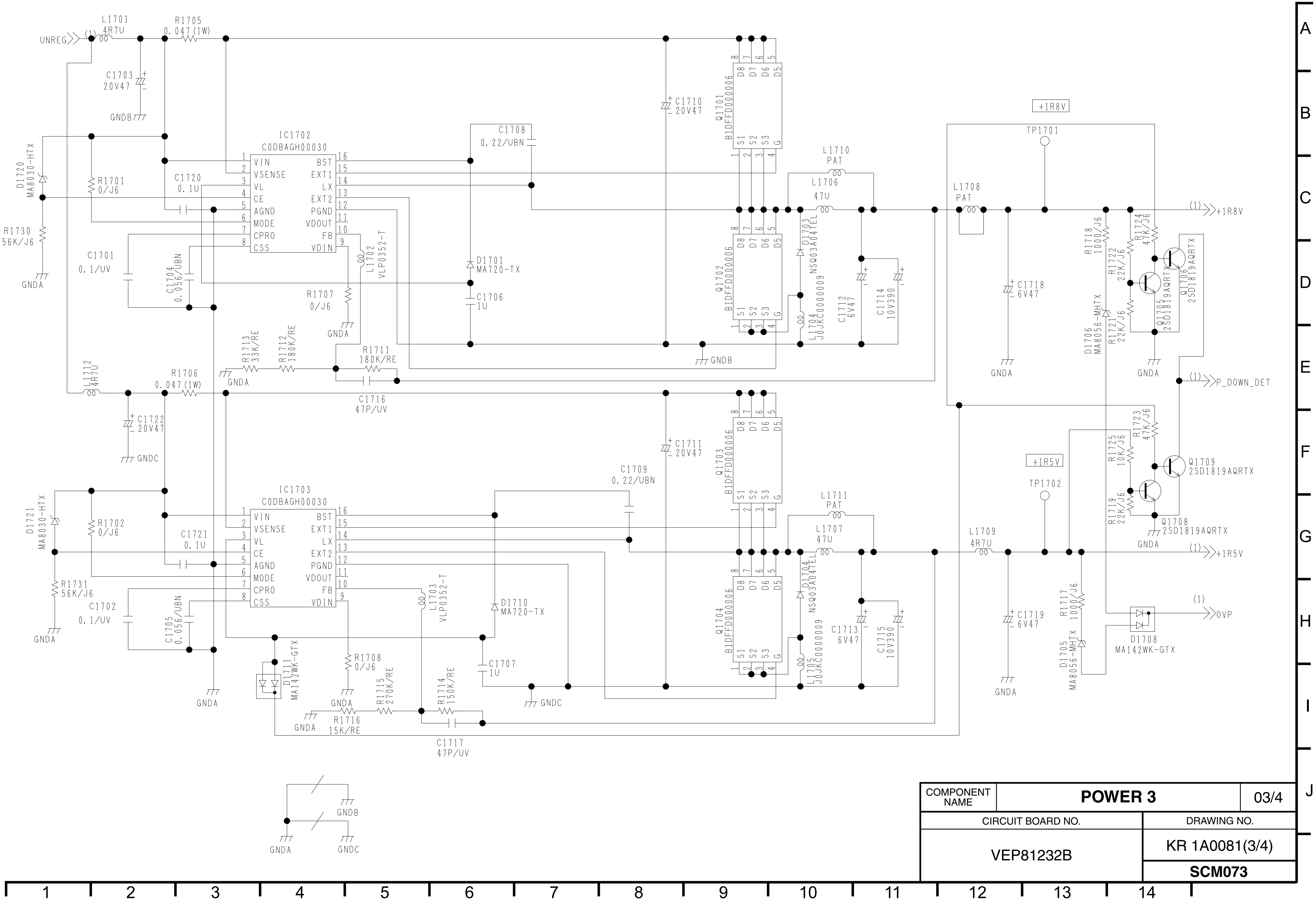
COMPONENT NAME	**POWER 3**	02/4
CIRCUIT BOARD NO.		DRAWING NO.
VEP81232B		KR 1A0081(2/4)
		SCM072


UNREG
(1)
L1701 4R7U
R1705 0.047(1W)
C1703 20V47
GNDB
D1720 MA8030-HTX
R1701 0/J6
R1730 56K/J6
GNDA
C1720 0.1U
C1701 0.1/UV
C1704 0.056/UBN
IC1702 C0DBAGH00030
VIN
VSENSE
VL
CE
AGND
MODE
CPRO
CSS
BST
EXT1
LX
EXT2
PGND
VDOUT
FB
VDIN
C1708 0.22/UBN
D1701 MA720-TX
C1706 1U
L1702 VLP0352-T
R1707 0/J6
C1710 20V47
Q1701 B1DFFD000006
Q1702 B1DFFD000006
D1703 NSQ03A04TEL
L1704 J0JKC0000009
L1710 PAT
L1706 47U
C1712 6V47
C1714 10V390
R1713 33K/RE
R1712 180K/RE
R1711 180K/RE
C1716 47P/UV
L1712 4R7U
R1706 0.047(1W)
C1722 20V47
GNDC
+1R8V
TP1701
L1708 PAT
C1718 6V47
R1718 1000/J6
R1724 47K/J6
R1722 22K/J6
R1721 22K/J6
D1706 MA8056-MHTX
Q1705 2SD1819AQRTX
Q1706 2SD1819AQRTX
P_DOWN_DET
D1721 MA8030-HTX
R1702 0/J6
R1731 56K/J6
C1721 0.1U
C1702 0.1/UV
C1705 0.056/UBN
IC1703 C0DBAGH00030
C1709 0.22/UBN
C1711 20V47
Q1703 B1DFFD000006
Q1704 B1DFFD000006
D1704 NSQ03A04TEL
L1705 J0JKC0000009
L1711 PAT
L1707 47U
C1713 6V47
C1715 10V390
D1710 MA720-TX
C1707 1U
L1703 VLP0352-T
D1711 MA142WK-GTX
R1708 0/J6
R1715 270K/RE
R1714 150K/RE
R1716 15K/RE
C1717 47P/UV
+1R5V
TP1702
L1709 4R7U
C1719 6V47
R1717 1000/J6
D1705 MA8056-MHTX
D1708 MA142WK-GTX
OVP
R1725 10K/J6
R1723 47K/J6
R1719 22K/J6
Q1709 2SD1819AQRTX
Q1708 2SD1819AQRTX
+1R5V
A
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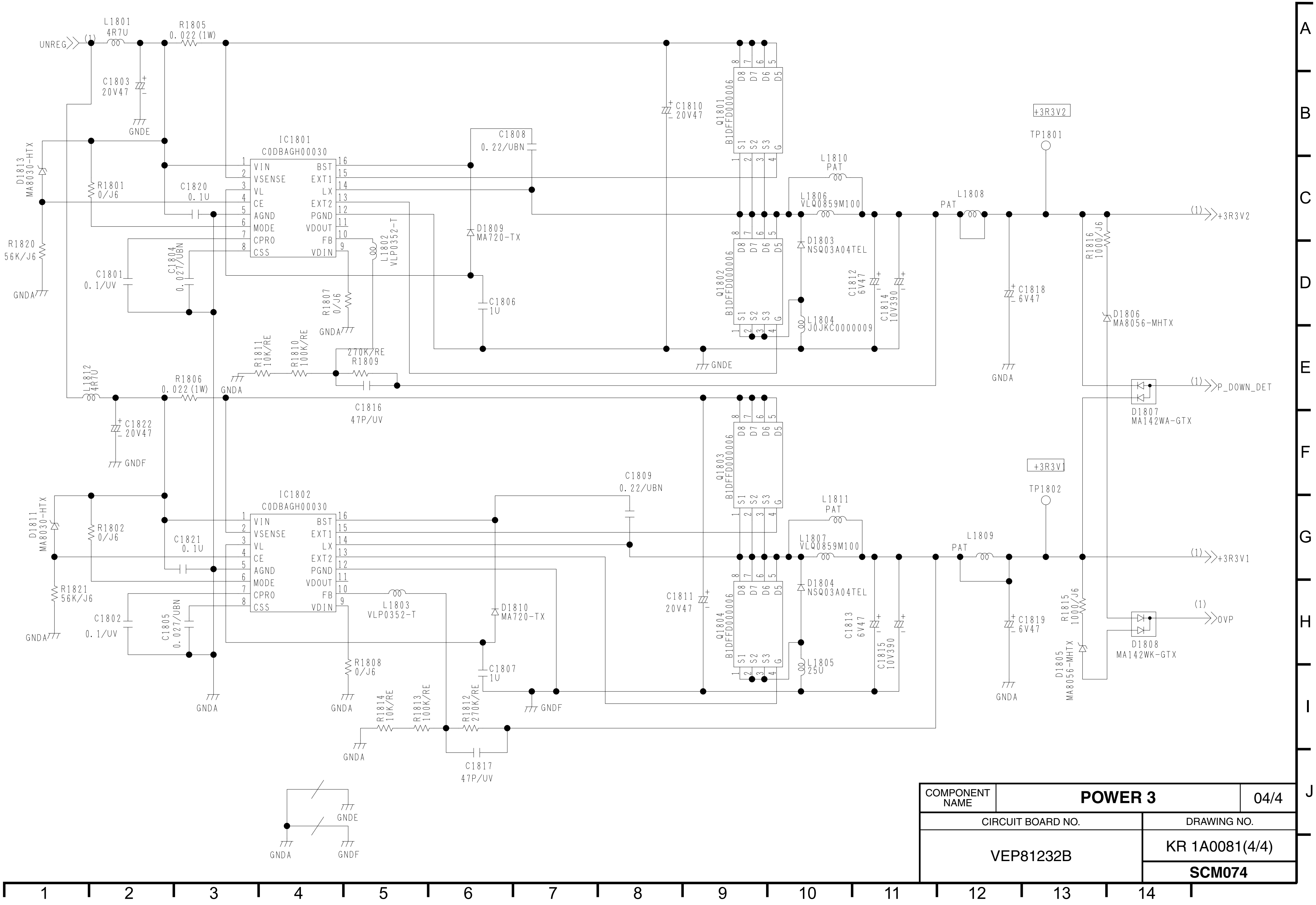
COMPONENT NAME	POWER 3	03/4
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81232B	KR 1A0081(3/4)	
	SCM073	


UNREG
(1)
L1801
4R7U
R1805
0.022(1W)
C1803
20V47
GNDE
D1813
MA8030-HTX
R1801
0/J6
C1820
0.1U
R1820
56K/J6
GNDA
IC1801
C0DBAGH00030
VIN
VSENSE
VL
CE
AGND
MODE
CPRO
CSS
BST
EXT1
LX
EXT2
PGND
VDOUT
FB
VDIN
C1801
0.1/UV
C1804
0.027/UBN
C1808
0.22/UBN
D1809
MA720-TX
C1806
1U
L1802
VLP0352-T
R1807
0/J6
C1810
20V47
Q1801
B1DFFD000006
Q1802
B1DFFD000006
L1810
PAT
L1806
VLQ0859M100
D1803
NSQ03A04TEL
C1812
6V47
C1814
10V390
L1804
J0JKC0000009
L1808
PAT
C1818
6V47
+3R3V2
TP1801
+3R3V2
R1816
1000/J6
D1806
MA8056-MHTX
P_DOWN_DET
D1807
MA142WA-GTX
R1811
10K/RE
R1810
100K/RE
270K/RE
R1809
C1816
47P/UV
L1812
4R7U
R1806
0.022(1W)
C1822
20V47
GNDF
Q1803
B1DFFD000006
Q1804
B1DFFD000006
C1809
0.22/UBN
+3R3V1
TP1802
D1811
MA8030-HTX
R1802
0/J6
C1821
0.1U
R1821
56K/J6
IC1802
C0DBAGH00030
C1802
0.1/UV
C1805
0.027/UBN
L1803
VLP0352-T
D1810
MA720-TX
C1807
1U
R1808
0/J6
C1811
20V47
L1811
PAT
L1807
VLQ0859M100
D1804
NSQ03A04TEL
C1813
6V47
C1815
10V390
L1805
25U
L1809
PAT
C1819
6V47
R1815
1000/J6
D1805
MA8056-MHTX
D1808
MA142WK-GTX
+3R3V1
OVP
R1814
10K/RE
R1813
100K/RE
R1812
270K/RE
C1817
47P/UV
GNDE
GNDA
GNDF
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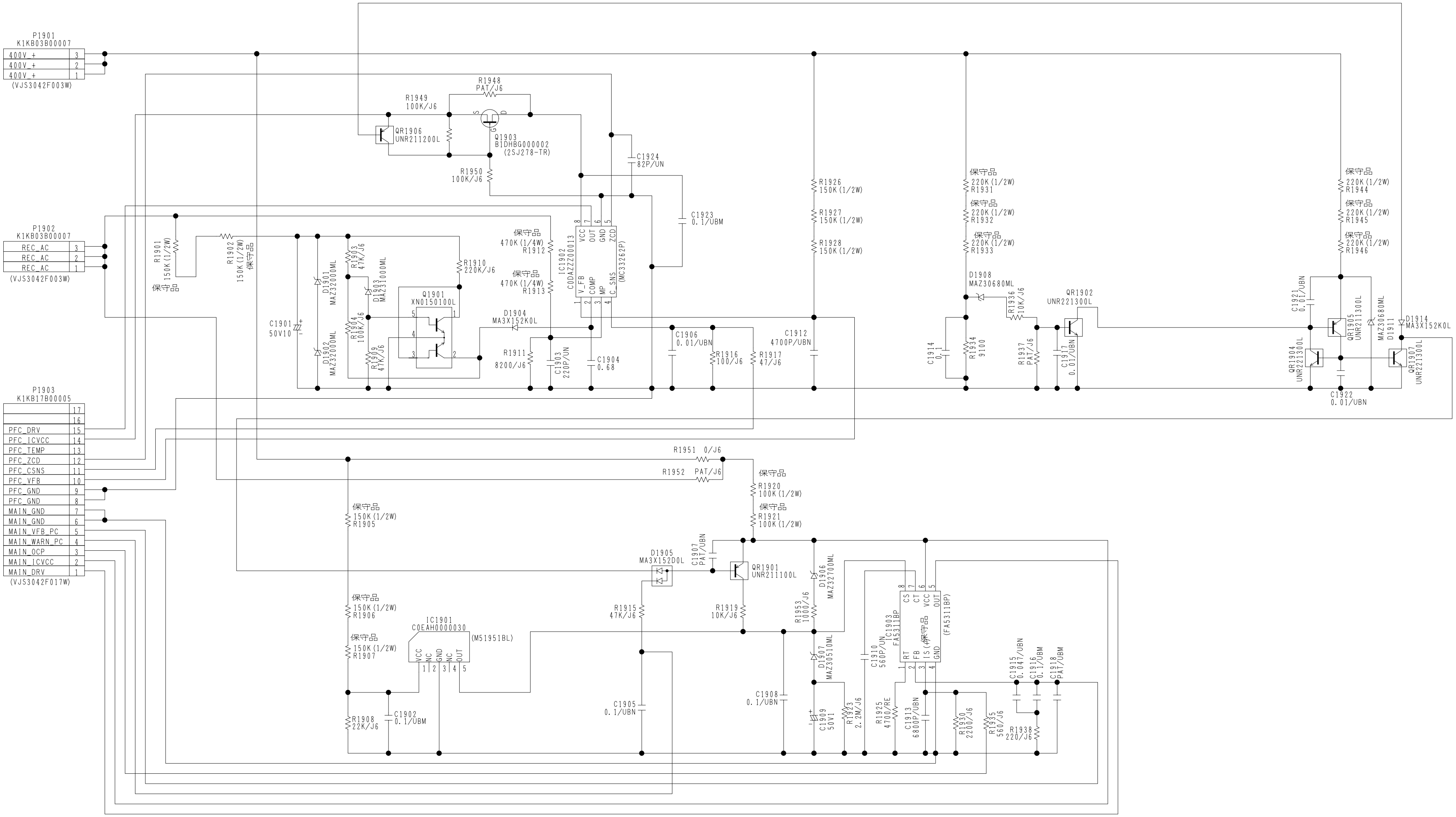
COMPONENT NAME	POWER 3	04/4
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81232B	KR 1A0081(4/4)	
	SCM074	


P1901
K1KB03B00007
400V_+ 3
400V_+ 2
400V_+ 1
(VJS3042F003W)
P1902
K1KB03B00007
REC_AC 3
REC_AC 2
REC_AC 1
(VJS3042F003W)
P1903
K1KB17B00005
17
16
PFC_DRV 15
PFC_ICVCC 14
PFC_TEMP 13
PFC_ZCD 12
PFC_CSNS 11
PFC_VFB 10
PFC_GND 9
PFC_GND 8
MAIN_GND 7
MAIN_GND 6
MAIN_VFB_PC 5
MAIN_WARN_PC 4
MAIN_OCP 3
MAIN_ICVCC 2
MAIN_DRV 1
(VJS3042F017W)
R1948
PAT/J6
R1949
100K/J6
QR1906
UNR211200L
S
D
G
Q1903
B1DHBG000002
(2SJ278-TR)
R1950
100K/J6
C1924
82P/UN
C1923
0.1/UBM
R1901
150K(1/2W)
保守品
R1902
150K(1/2W)
保守品
C1901
50V10
D1901
MAZ32000ML
D1902
MAZ32000ML
R1903
47K/J6
D1903
MAZ31000ML
R1904
100K/J6
R1909
47K/J6
Q1901
XN0150100L
R1910
220K/J6
保守品
470K(1/4W)
R1912
保守品
470K(1/4W)
R1913
D1904
MA3X152K0L
R1911
8200/J6
C1903
220P/UN
C1904
0.68
IC1902
C0DAZZZ00013
(MC33262P)
VCC OUT GND ZCD
V_FB COMP MP C_SNS
C1906
0.01/UBN
R1916
100/J6
R1917
47/J6
R1926
150K(1/2W)
R1927
150K(1/2W)
R1928
150K(1/2W)
C1912
4700P/UBN
保守品
220K(1/2W)
R1931
保守品
220K(1/2W)
R1932
保守品
220K(1/2W)
R1933
D1908
MAZ30680ML
R1936
10K/J6
C1914
0.1
R1934
9100
R1937
PAT/J6
C1917
0.01/UBN
QR1902
UNR221300L
保守品
220K(1/2W)
R1944
保守品
220K(1/2W)
R1945
保守品
220K(1/2W)
R1946
C1921
0.01/UBN
QR1905
UNR211300L
D1911
MAZ30680ML
D1914
MA3X152K0L
QR1904
UNR221300L
QR1907
UNR221300L
C1922
0.01/UBN
R1951 0/J6
R1952 PAT/J6
保守品
R1920
100K(1/2W)
保守品
R1921
100K(1/2W)
保守品
150K(1/2W)
R1905
保守品
150K(1/2W)
R1906
保守品
150K(1/2W)
R1907
IC1901
C0EAH0000030
(M51951BL)
VCC NC GND NC OUT
R1908
22K/J6
C1902
0.1/UBM
D1905
MA3X152D0L
C1907
PAT/UBN
QR1901
UNR211100L
R1915
47K/J6
R1919
10K/J6
C1905
0.1/UBN
D1906
MAZ32700ML
R1953
1000/J6
D1907
MAZ30510ML
C1908
0.1/UBN
C1909
50V1
R1923
2.2M/J6
C1910
560P/UN
IC1903
FA5311BP
(FA5311BP)
保守品
CS CT VCC OUT
RT FB IS(+) GND
R1925
4700/RE
C1913
6800P/UBN
R1930
2200/J6
R1935
560/J6
C1915
0.047/UBN
C1916
0.1/UBM
C1918
PAT/UBM
R1938
220/J6
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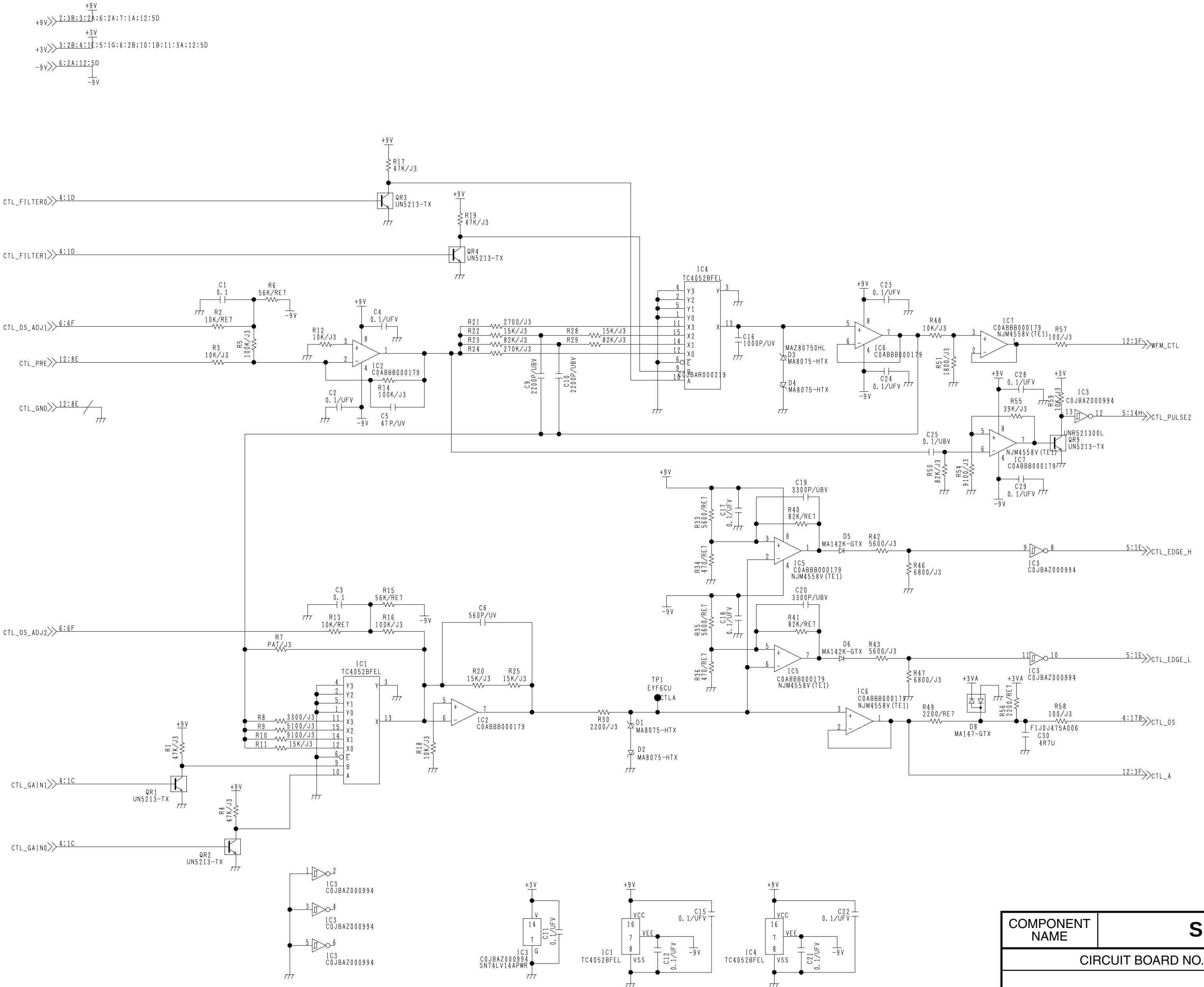
COMPONENT NAME	SUB_POWER1(1/1)	1/1
CIRCUIT BOARD NO.		DRAWING NO.
VEP81233A		KR 1A0015(1/1)
		SCM066


+9V 2:3B:3:2A:6:2A:7:1A:12:5D
+3V 3:2B:4:1E:5:1G:6:2B:10:1B:11:3A:12:5D
-9V 6:2A:12:5D
CTL_FILTER0 4:1D
CTL_FILTER1 4:1D
CTL_OS_ADJ1 6:6F
CTL_PRE 12:8E
CTL_GND 12:8E
CTL_OS_ADJ2 6:6F
CTL_GAIN1 4:1C
CTL_GAIN0 4:1C
R17 47K/J3
QR3 UN5213-TX
R19 47K/J3
QR4 UN5213-TX
C1 0.1
R6 56K/RE7
R2 10K/RE7
R3 10K/J3
R5 100K/J3
R12 10K/J3
C4 0.1/UFV
IC2 C0ABBB000179
R14 100K/J3
C2 0.1/UFV
C5 47P/UV
R21 2700/J3
R22 15K/J3
R23 82K/J3
R24 270K/J3
R28 15K/J3
R29 82K/J3
C9 2200P/UBV
C10 2200P/UBV
IC4 TC4052BFEL
C0JBAR000219
C16 1000P/UV
MAZ80750HL
D3 MA8075-HTX
D4 MA8075-HTX
C23 0.1/UFV
IC6 C0ABBB000179
C24 0.1/UFV
R48 10K/J3
R51 1800/J3
IC7 C0ABBB000179 NJM4558V(TE1)
R57 100/J3
12:3F WFM_CTL
C28 0.1/UFV
R55 39K/J3
R59 10K/J3
IC3 C0JBAZ000994
5:1H CTL_PULSE2
UNR521300L
QR9 UN5213-TX
C25 0.1/UBV
R50 82K/J3
R54 9100/J3
C29 0.1/UFV
R33 5600/RE7
C17 0.1/UFV
C19 3300P/UBV
R40 82K/RE7
D5 MA142K-GTX
R42 5600/J3
R34 470/RE7
IC5 C0ABBB000179 NJM4558V(TE1)
R46 6800/J3
5:1E CTL_EDGE_H
R35 5600/RE7
C18 0.1/UFV
C20 3300P/UBV
R41 82K/RE7
D6 MA142K-GTX
R43 5600/J3
R36 470/RE7
R47 6800/J3
5:1E CTL_EDGE_L
C3 0.1
R15 56K/RE7
R13 10K/RE7
R16 100K/J3
C6 560P/UV
R7 PAT/J3
IC1 TC4052BFEL
R8 3300/J3
R9 5100/J3
R10 9100/J3
R11 15K/J3
R20 15K/J3
R25 15K/J3
R18 10K/J3
R30 2200/J3
TP1 EYF6CU CTLA
D1 MA8075-HTX
D2 MA8075-HTX
IC6 C0ABBB000179 NJM4558V(TE1)
R49 2200/RE7
D8 MA147-GTX
+3VA
R56 2200/RE7
R58 100/J3
F1J0J475A006
C30 4R7U
4:17B CTL_OS
12:3F CTL_A
R1 47K/J3
QR1 UN5213-TX
R4 47K/J3
QR2 UN5213-TX
IC3 C0JBAZ000994
IC3 C0JBAZ000994 SN74LV14APWR
C11 0.1/UFV
IC1 TC4052BFEL
C15 0.1/UFV
C12 0.1/UFV
IC4 TC4052BFEL
C22 0.1/UFV
C21 0.1/UFV
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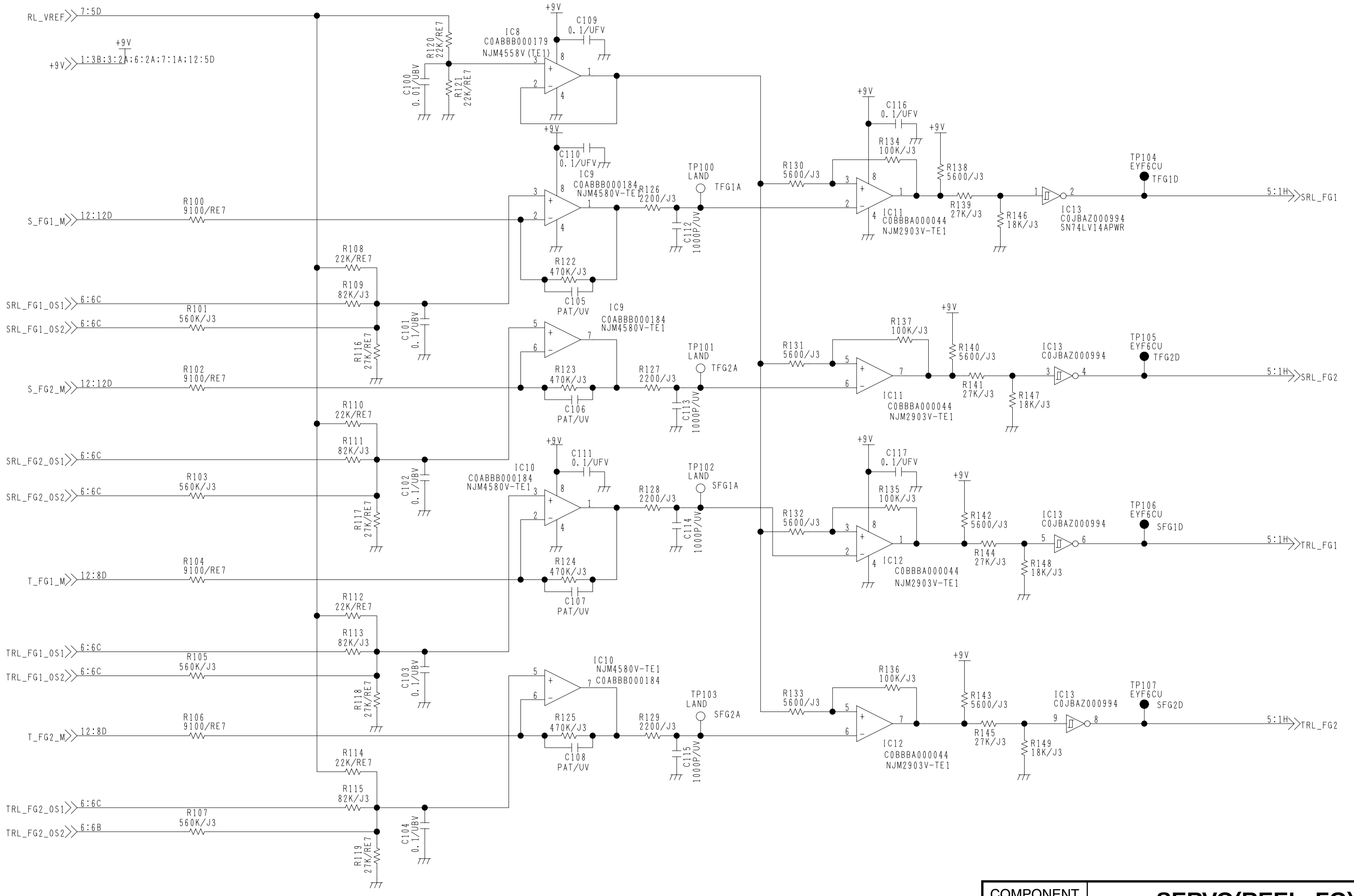
COMPONENT NAME	**SERVO(CTL)**	1/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82249B	KR 2A0004-1(1/13)	
	SCM080	


RL_VREF
7:5D
+9V
+9V
1:3B;3:2A;6:2A;7:1A;12:5D
R120
22K/RE7
C100
0.01/UBV
R121
22K/RE7
IC8
C0ABBB000179
NJM4558V(TE1)
C109
0.1/UFV
C110
0.1/UFV
IC9
C0ABBB000184
NJM4580V-TE1
R126
2200/J3
TP100
LAND
TFG1A
C112
1000P/UV
S_FG1_M
12:12D
R100
9100/RE7
R108
22K/RE7
R109
82K/J3
R122
470K/J3
C105
PAT/UV
SRL_FG1_OS1
6:6C
SRL_FG1_OS2
6:6C
R101
560K/J3
R116
27K/RE7
C101
0.1/UBV
IC9
C0ABBB000184
NJM4580V-TE1
S_FG2_M
12:12D
R102
9100/RE7
R123
470K/J3
C106
PAT/UV
R127
2200/J3
TP101
LAND
TFG2A
C113
1000P/UV
R110
22K/RE7
R111
82K/J3
SRL_FG2_OS1
6:6C
SRL_FG2_OS2
6:6C
R103
560K/J3
R117
27K/RE7
C102
0.1/UBV
IC10
C0ABBB000184
NJM4580V-TE1
C111
0.1/UFV
R128
2200/J3
TP102
LAND
SFG1A
C114
1000P/UV
T_FG1_M
12:8D
R104
9100/RE7
R124
470K/J3
C107
PAT/UV
R112
22K/RE7
R113
82K/J3
TRL_FG1_OS1
6:6C
TRL_FG1_OS2
6:6C
R105
560K/J3
R118
27K/RE7
C103
0.1/UBV
IC10
NJM4580V-TE1
C0ABBB000184
T_FG2_M
12:8D
R106
9100/RE7
R125
470K/J3
C108
PAT/UV
R129
2200/J3
TP103
LAND
SFG2A
C115
1000P/UV
R114
22K/RE7
R115
82K/J3
TRL_FG2_OS1
6:6C
TRL_FG2_OS2
6:6B
R107
560K/J3
R119
27K/RE7
C104
0.1/UBV
C116
0.1/UFV
R134
100K/J3
R130
5600/J3
R138
5600/J3
R139
27K/J3
R146
18K/J3
IC11
C0BBBA000044
NJM2903V-TE1
IC13
C0JBAZ000994
SN74LV14APWR
TP104
EYF6CU
TFG1D
5:1H
SRL_FG1
R137
100K/J3
R131
5600/J3
R140
5600/J3
R141
27K/J3
R147
18K/J3
IC11
C0BBBA000044
NJM2903V-TE1
IC13
C0JBAZ000994
TP105
EYF6CU
TFG2D
5:1H
SRL_FG2
C117
0.1/UFV
R135
100K/J3
R132
5600/J3
R142
5600/J3
R144
27K/J3
R148
18K/J3
IC12
C0BBBA000044
NJM2903V-TE1
IC13
C0JBAZ000994
TP106
EYF6CU
SFG1D
5:1H
TRL_FG1
R136
100K/J3
R133
5600/J3
R143
5600/J3
R145
27K/J3
R149
18K/J3
IC12
C0BBBA000044
NJM2903V-TE1
IC13
C0JBAZ000994
TP107
EYF6CU
SFG2D
5:1H
TRL_FG2

COMPONENT NAME	**SERVO(REEL_FG)**		2/13
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82249B		KR 2A0004-1(2/13) **SCM081**	

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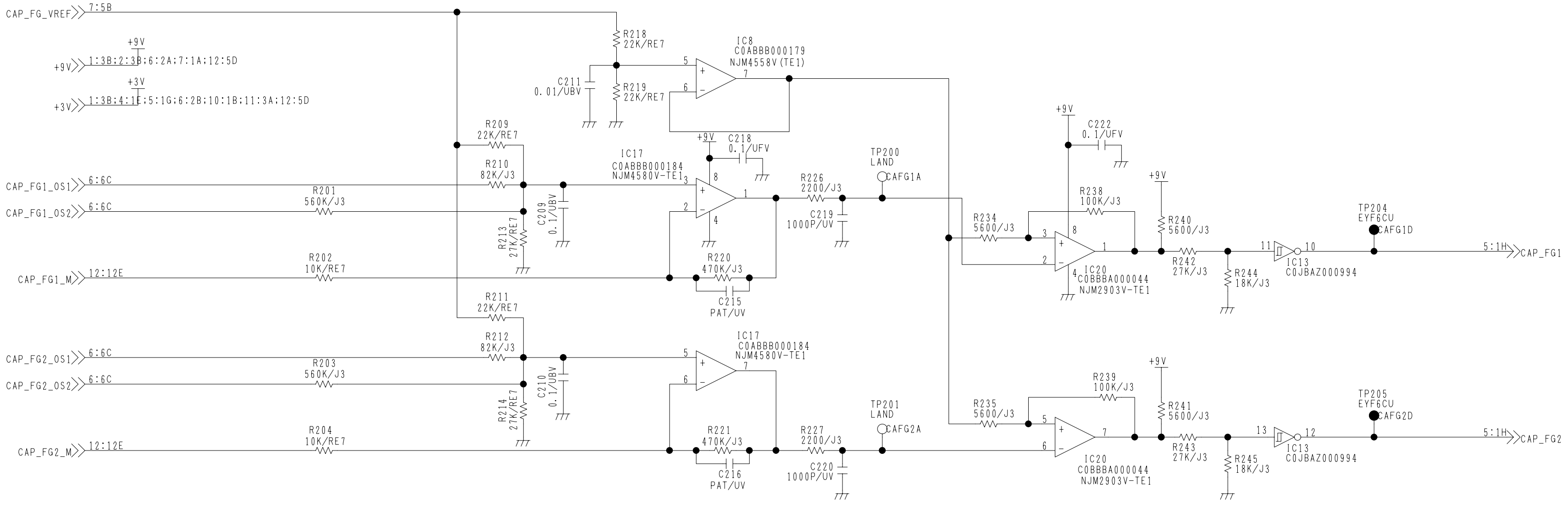
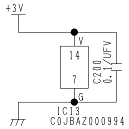
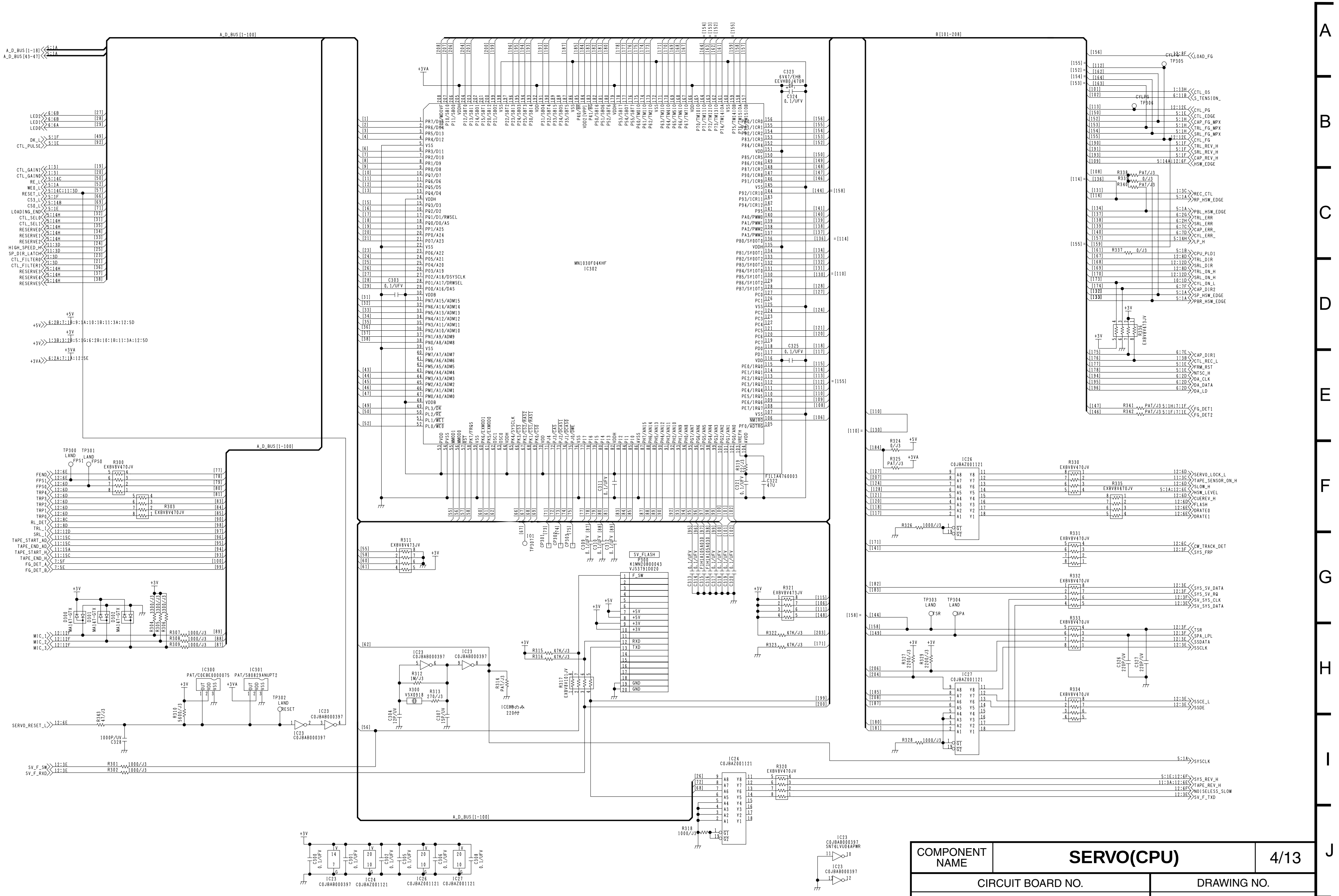
1 2 3 4 5 6 7 8 9 10 11 12 13 14

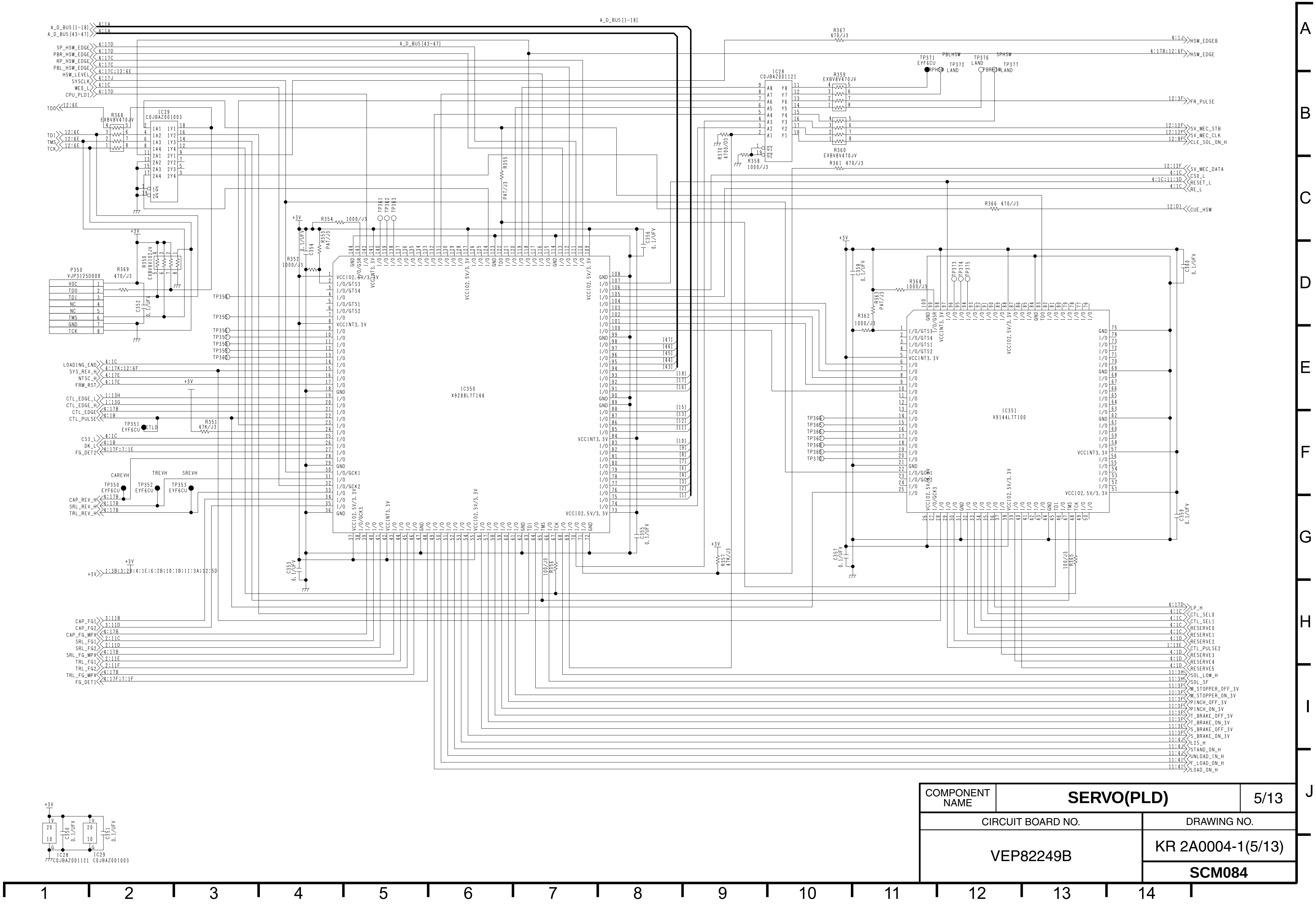

CAP_FG_VREF
7:5B
+9V
1:3B;2:3B;6:2A;7:1A;12:5D
+3V
1:3B;4:1E;5:1G;6:2B;10:1B;11:3A;12:5D
R218
22K/RE7
R219
22K/RE7
C211
0.01/UBV
IC8
C0ABBB000179
NJM4558V(TE1)
R209
22K/RE7
R210
82K/J3
CAP_FG1_OS1
6:6C
CAP_FG1_OS2
6:6C
R201
560K/J3
R213
27K/RE7
C209
0.1/UBV
IC17
C0ABBB000184
NJM4580V-TE1
C218
0.1/UFV
CAP_FG1_M
12:12E
R202
10K/RE7
R220
470K/J3
C215
PAT/UV
R226
2200/J3
C219
1000P/UV
TP200
LAND
CAFG1A
R211
22K/RE7
R212
82K/J3
CAP_FG2_OS1
6:6C
CAP_FG2_OS2
6:6C
R203
560K/J3
R214
27K/RE7
C210
0.1/UBV
IC17
C0ABBB000184
NJM4580V-TE1
CAP_FG2_M
12:12E
R204
10K/RE7
R221
470K/J3
C216
PAT/UV
R227
2200/J3
C220
1000P/UV
TP201
LAND
CAFG2A
C222
0.1/UFV
R234
5600/J3
R238
100K/J3
IC20
C0BBBA000044
NJM2903V-TE1
R240
5600/J3
R242
27K/J3
R244
18K/J3
IC13
C0JBAZ000994
TP204
EYF6CU
CAFG1D
5:1H
CAP_FG1
R235
5600/J3
R239
100K/J3
IC20
C0BBBA000044
NJM2903V-TE1
R241
5600/J3
R243
27K/J3
R245
18K/J3
IC13
C0JBAZ000994
TP205
EYF6CU
CAFG2D
5:1H
CAP_FG2


+3V
V
14
7
G
C200
0.1/UFV
IC13
C0JBAZ000994

COMPONENT NAME	**SERVO(CA_CY_FG)**	3/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82249B	KR 2A0004-1(3/13)	
	SCM082	


A_D_BUS[1-100]
B[101-208]
MN1030F04KHF
IC302
IC23
C0JBAB000397
IC24
C0JBAZ001121
IC26
C0JBAZ001121
IC27
C0JBAZ001121
IC300
PAT/C0EBE0000075
IC301
PAT/S80829ANUPT2
X300
VSX0918
P300
SV_FLASH
F_SW
RXD
TXD
GND
SERVO_RESET_L
SV_F_SW
SV_F_RXD
TP300
TP301
TP302
TP303
TP304
TP305
TP306
ICE時のみ
220付
SN74LVU04APWR
MIC_1
MIC_2
MIC_3
LOAD_FG
CTL_OS
S_TENSION_
CYL_PG
CTL_EDGE
CAP_FG_MPX
TRL_FG_MPX
SRL_FG_MPX
CYL_FG
TRL_REV_H
SRL_REV_H
CAP_REV_H
HSW_EDGE
REC_CTL
RP_HSW_EDGE
PBL_HSW_EDGE
TRL_ERR
SRL_ERR
CAP_ERR_
CYL_ERR_
LP_H
CPU_PLD1
TRL_DIR
SRL_DIR
TRL_ON_H
SRL_ON_H
CYL_ON_L
CAP_DIR2
SP_HSW_EDGE
PBR_HSW_EDGE
CAP_DIR1
CTL_REC_L
FRM_RST
NTSC_H
DA_CLK
DA_DATA
DA_LD
FG_DET1
FG_DET2
SERVO_LOCK_L
TAPE_SENSOR_ON_H
SLOW_H
HSW_LEVEL
CUEREV_H
FLASH
DRATE0
DRATE1
CW_TRACK_DET
SYS_FRP
SYS_SV_DATA
SYS_SV_RQ
SV_SYS_CLK
SV_SYS_DATA
TSR
SPA_LPL
SSDATA
SSCLK
SSCE_L
SSDE
SYSCLK
SYS_REV_H
TAPE_REV_H
NOISELESS_SLOW
SV_F_TXD

COMPONENT NAME	SERVO(CPU)	4/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP82249B		KR 2A0004-1(4/13)
		SCM083


A_D_BUS[1-18]
A_D_BUS[43-47]
SP_HSW_EDGE
PBR_HSW_EDGE
RP_HSW_EDGE
PBL_HSW_EDGE
HSW_LEVEL
SYSCLK
WE0_L
CPU_PLD1
TDO
TDI
TMS
TCK
R368
EXBV8V470JV
IC29
C0JBAZ001003
IC28
C0JBAZ001121
R359
EXBV8V470JV
R360
EXBV8V470JV
R367
470/J3
TP371
TP372
TP376
TP377
PBLHSW
SPHSW
HSW_EDGEB
HSW_EDGE
FR_PULSE
SV_MEC_STB
SV_MEC_CLK
CLE_SOL_ON_H
SV_MEC_DATA
CS0_L
RESET_L
RE_L
CUE_HSW
R361 470/J3
R366 470/J3
R370 4700/D5
R358 1000/J3
R355 PAT/J3
R354 1000/J3
R353 PAT/J3
R352 1000/J3
C354 0.1/UFV
C356 0.1/UFV
TP361
TP362
TP363
P350
VJP3125D008
VCC
TDO
TDI
NC
NC
TMS
GND
TCK
R369 470/J3
R350 EXBV8V102JV
C352 0.1/UFV
+3V
IC350
X9288L7T144
IC351
X9144L7T100
TP354
TP355
TP356
TP357
TP358
TP359
TP360
LOADING_END
SYS_REV_H
NTSC_H
FRM_RST
CTL_EDGE_L
CTL_EDGE_H
CTL_EDGE
CTL_PULSE
TP351 EYF6CU
CTLO
R351 47K/J3
CS3_L
DK_L
FG_DET2
CAREVH
TREVH
SREVH
TP350 EYF6CU
TP352 EYF6CU
TP353 EYF6CU
CAP_REV_H
SRL_REV_H
TRL_REV_H
C353 0.1/UFV
C355 0.1/UFV
R356 100/J3
R357 47K/J3
C357 0.1/UFV
C358 0.1/UFV
C359 0.1/UFV
C360 0.1/UFV
R362 1000/J3
R363 PAT/J3
R364 1000/J3
R365 100/J3
TP364
TP365
TP366
TP367
TP368
TP369
TP370
TP373
TP374
TP375
CAP_FG1
CAP_FG2
CAP_FG_MPX
SRL_FG1
SRL_FG2
SRL_FG_MPX
TRL_FG1
TRL_FG2
TRL_FG_MPX
FG_DET1
LP_H
CTL_SEL0
CTL_SEL1
RESERVE0
RESERVE1
RESERVE2
CTL_PULSE2
RESERVE3
RESERVE4
RESERVE5
SOL_LOW_H
SOL_SF
M_STOPPER_OFF_3V
M_STOPPER_ON_3V
PINCH_OFF_3V
PINCH_ON_3V
T_BRAKE_OFF_3V
T_BRAKE_ON_3V
S_BRAKE_OFF_3V
S_BRAKE_ON_3V
L2S_H
STAND_ON_H
UNLOAD_IN_H
F_LOAD_ON_H
LOAD_ON_H
C350 0.1/UFV
C351 0.1/UFV
IC28 C0JBAZ001121
IC29 C0JBAZ001003
A
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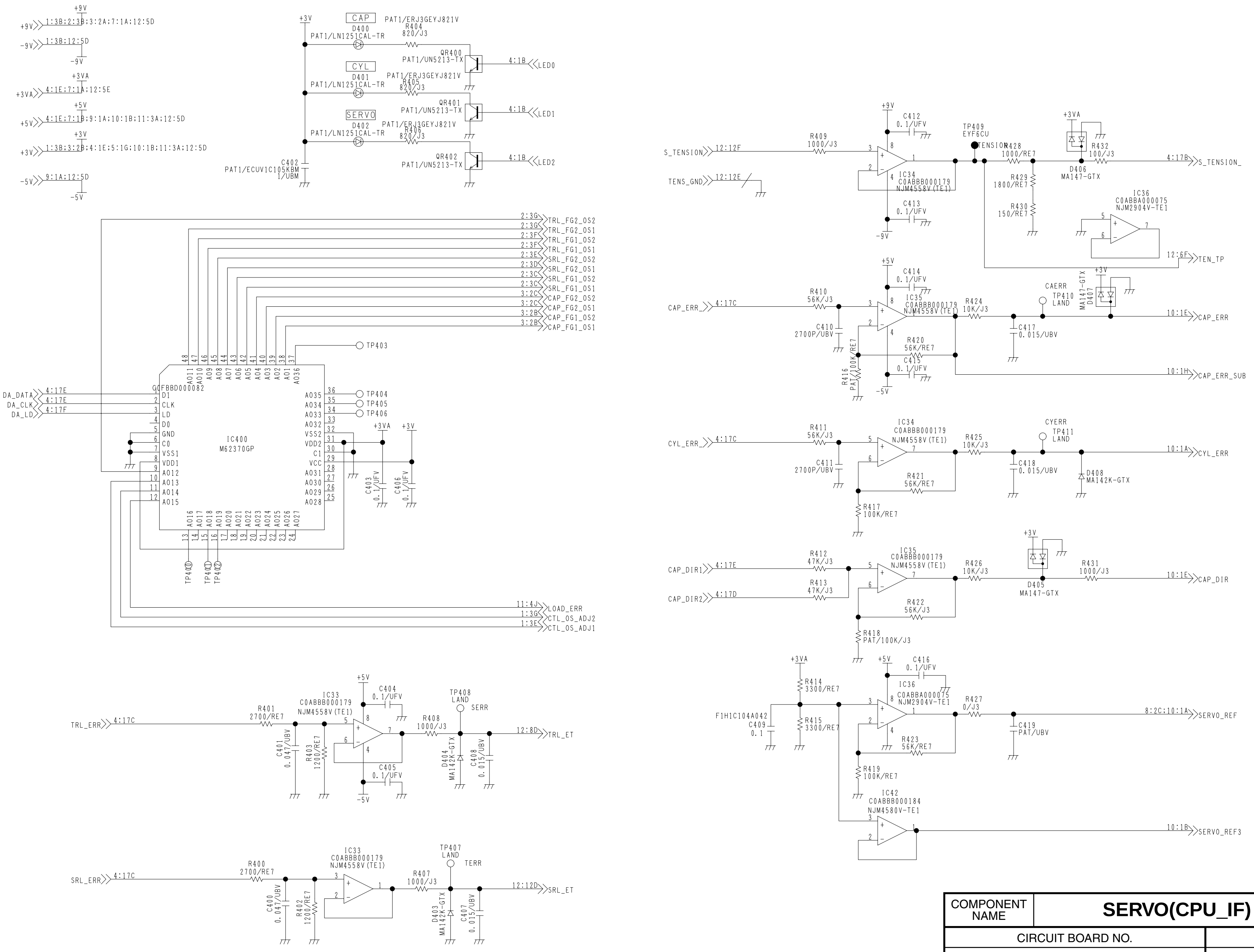
COMPONENT NAME	SERVO(PLD)	5/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82249B	KR 2A0004-1(5/13)	
	SCM084	


+9V
-9V
+3VA
+5V
+3V
-5V
CAP
CYL
SERVO
D400
D401
D402
PAT1/LN1251CAL-TR
R404 820/J3
R405 820/J3
R406 820/J3
PAT1/ERJ3GEYJ821V
QR400
QR401
QR402
PAT1/UN5213-TX
LED0
LED1
LED2
C402 PAT1/ECUV1C105KBM 1/UBM
TRL_FG2_OS2
TRL_FG2_OS1
TRL_FG1_OS2
TRL_FG1_OS1
SRL_FG2_OS2
SRL_FG2_OS1
SRL_FG1_OS2
SRL_FG1_OS1
CAP_FG2_OS2
CAP_FG2_OS1
CAP_FG1_OS2
CAP_FG1_OS1
TP403
TP404
TP405
TP406
DA_DATA
DA_CLK
DA_LD
C0FBBD000082
IC400 M62370GP
C403 0.1/UFV
C406 0.1/UFV
TP400
TP401
TP402
LOAD_ERR
CTL_OS_ADJ2
CTL_OS_ADJ1
TRL_ERR
R401 2700/RE7
C401 0.047/UBV
R403 1200/RE7
IC33 C0ABBB000179 NJM4558V(TE1)
C404 0.1/UFV
C405 0.1/UFV
R408 1000/J3
TP408 LAND
SERR
D404 MA142K-GTX
C408 0.015/UBV
TRL_ET
SRL_ERR
R400 2700/RE7
C400 0.047/UBV
R402 1200/RE7
R407 1000/J3
TP407 LAND
TERR
D403 MA142K-GTX
C407 0.015/UBV
SRL_ET
S_TENSION
TENS_GND
R409 1000/J3
C412 0.1/UFV
C413 0.1/UFV
IC34 C0ABBB000179 NJM4558V(TE1)
TP409 EYF6CU
TENSION
R428 1000/RE7
R429 1800/RE7
R430 150/RE7
D406 MA147-GTX
R432 100/J3
S_TENSION_
IC36 C0ABBA000075 NJM2904V-TE1
TEN_TP
CAP_ERR
R410 56K/J3
C410 2700P/UBV
C414 0.1/UFV
IC35 C0ABBB000179 NJM4558V(TE1)
R424 10K/J3
CAERR
TP410 LAND
D407 MA147-GTX
C417 0.015/UBV
R420 56K/RE7
C415 0.1/UFV
R416 PAT/100K/RE7
CAP_ERR_SUB
CYL_ERR
R411 56K/J3
C411 2700P/UBV
R425 10K/J3
CYERR
TP411 LAND
C418 0.015/UBV
D408 MA142K-GTX
R421 56K/RE7
R417 100K/RE7
CAP_DIR1
CAP_DIR2
R412 47K/J3
R413 47K/J3
R426 10K/J3
D405 MA147-GTX
R431 1000/J3
CAP_DIR
R422 56K/J3
R418 PAT/100K/J3
R414 3300/RE7
R415 3300/RE7
F1H1C104A042 C409 0.1
C416 0.1/UFV
R427 0/J3
C419 PAT/UBV
SERVO_REF
R423 56K/RE7
R419 100K/RE7
IC42 C0ABBB000184 NJM4580V-TE1
SERVO_REF3
A
B
C
D
E
F
G
H
I
J
1
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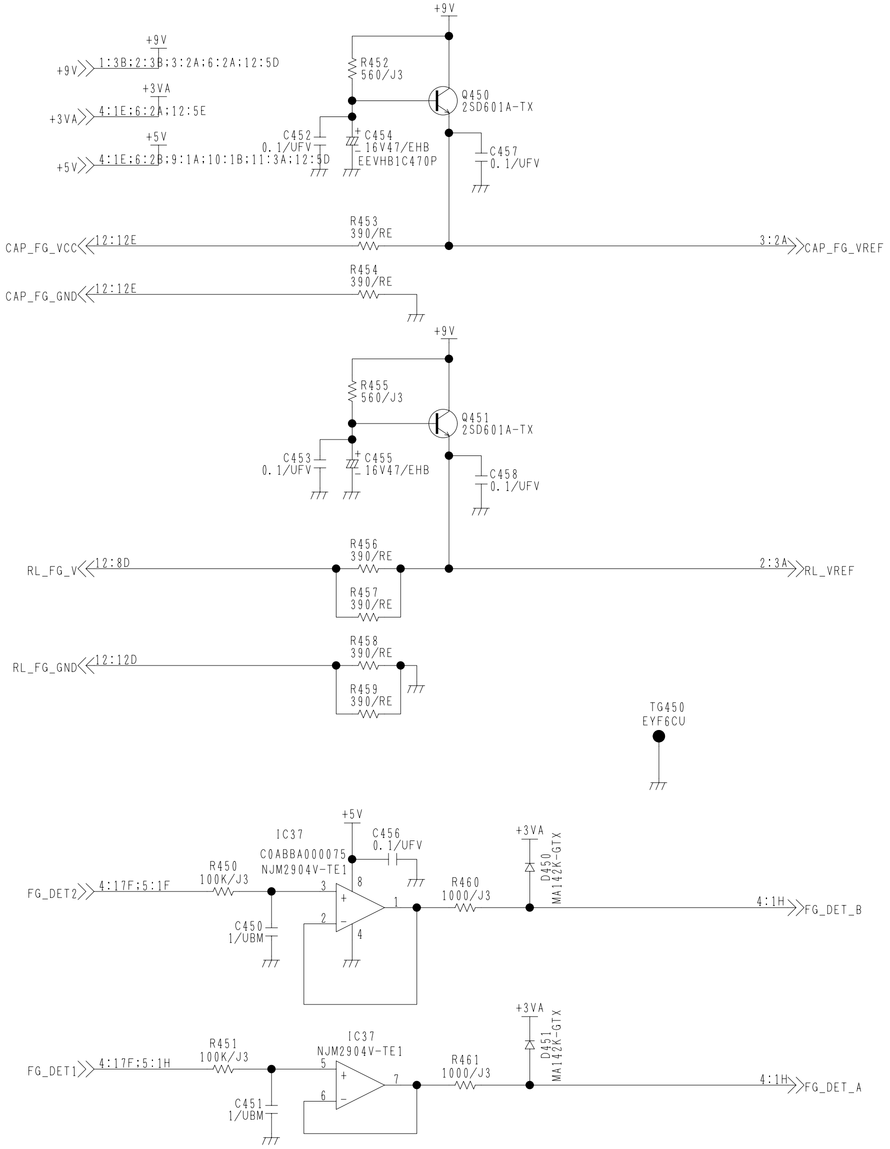
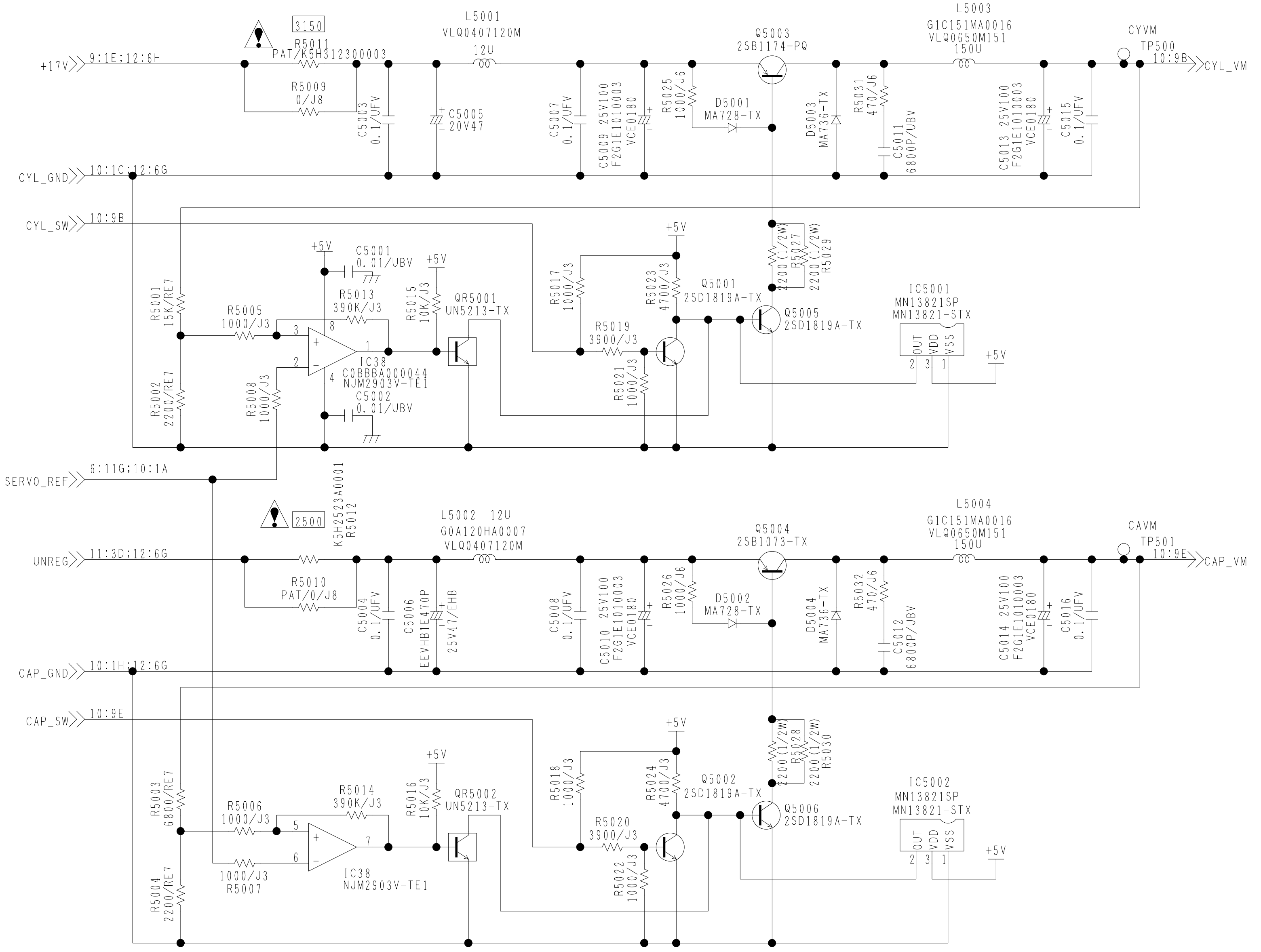
COMPONENT NAME	SERVO(CPU_IF)	6/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82249B	KR 2A0004-1(6/13)	
	SCM085	


+9V
+9V
1:3B;2:3B;3:2A;6:2A;12:5D
+3VA
+3VA
4:1E;6:2A;12:5E
+5V
+5V
4:1E;6:2B;9:1A;10:1B;11:3A;12:5D
+9V
R452
560/J3
Q450
2SD601A-TX
C452
0.1/UFV
C454
16V47/EHB
EEVHB1C470P
C457
0.1/UFV
CAP_FG_VCC
12:12E
R453
390/RE
3:2A
CAP_FG_VREF
CAP_FG_GND
12:12E
R454
390/RE
+9V
R455
560/J3
Q451
2SD601A-TX
C453
0.1/UFV
C455
16V47/EHB
C458
0.1/UFV
RL_FG_V
12:8D
R456
390/RE
R457
390/RE
2:3A
RL_VREF
RL_FG_GND
12:12D
R458
390/RE
R459
390/RE
TG450
EYF6CU
+5V
IC37
C0ABBA000075
NJM2904V-TE1
C456
0.1/UFV
+3VA
D450
MA142K-GTX
FG_DET2
4:17F;5:1F
R450
100K/J3
3
2
8
1
4
C450
1/UBM
R460
1000/J3
4:1H
FG_DET_B
+3VA
D451
MA142K-GTX
IC37
NJM2904V-TE1
FG_DET1
4:17F;5:1H
R451
100K/J3
5
6
7
C451
1/UBM
R461
1000/J3
4:1H
FG_DET_A

A
B
C
D
E
F
G
H
I
J

1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	SERVO(POWER)		7/13
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82249B		KR 2A0004-1(7/13)	
		SCM086	


+17V
9:1E;12:6H
3150
R5011
PAT/K5H312300003
R5009
0/J8
C5003
0.1/UFV
L5001
VLQ0407120M
12U
C5005
20V47
C5007
0.1/UFV
C5009 25V100
F2G1E101003
VCE0180
R5025
1000/J6
D5001
MA728-TX
Q5003
2SB1174-PQ
D5003
MA736-TX
R5031
470/J6
C5011
6800P/UBV
L5003
G1C151MA0016
VLQ0650M151
150U
C5013 25V100
F2G1E101003
VCE0180
C5015
0.1/UFV
CYVM
TP500
10:9B
CYL_VM
CYL_GND
10:1C;12:6G
CYL_SW
10:9B
+5V
C5001
0.01/UBV
R5013
390K/J3
R5015
10K/J3
QR5001
UN5213-TX
R5001
15K/RE7
R5005
1000/J3
IC38
C0BBBA000044
NJM2903V-TE1
C5002
0.01/UBV
R5002
2200/RE7
R5008
1000/J3
R5017
1000/J3
R5019
3900/J3
R5021
1000/J3
R5023
4700/J3
Q5001
2SD1819A-TX
R5027
2200(1/2W)
R5029
2200(1/2W)
Q5005
2SD1819A-TX
IC5001
MN13821SP
MN13821-STX
OUT VDD VSS
SERVO_REF
6:11G;10:1A
2500
K5H2523A0001
R5012
L5002 12U
G0A120HA0007
VLQ0407120M
UNREG
11:3D;12:6G
R5010
PAT/0/J8
C5004
0.1/UFV
C5006
EEVHB1E470P
25V47/EHB
C5008
0.1/UFV
C5010 25V100
F2G1E101003
VCE0180
R5026
1000/J6
D5002
MA728-TX
Q5004
2SB1073-TX
D5004
MA736-TX
R5032
470/J6
C5012
6800P/UBV
L5004
G1C151MA0016
VLQ0650M151
150U
C5014 25V100
F2G1E101003
VCE0180
C5016
0.1/UFV
CAVM
TP501
10:9E
CAP_VM
CAP_GND
10:1H;12:6G
CAP_SW
10:9E
R5003
6800/RE7
R5006
1000/J3
R5014
390K/J3
R5016
10K/J3
QR5002
UN5213-TX
R5007
1000/J3
IC38
NJM2903V-TE1
R5004
2200/RE7
R5018
1000/J3
R5020
3900/J3
R5022
1000/J3
R5024
4700/J3
Q5002
2SD1819A-TX
R5028
2200(1/2W)
R5030
2200(1/2W)
Q5006
2SD1819A-TX
IC5002
MN13821SP
MN13821-STX

IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

⚠ 警 告

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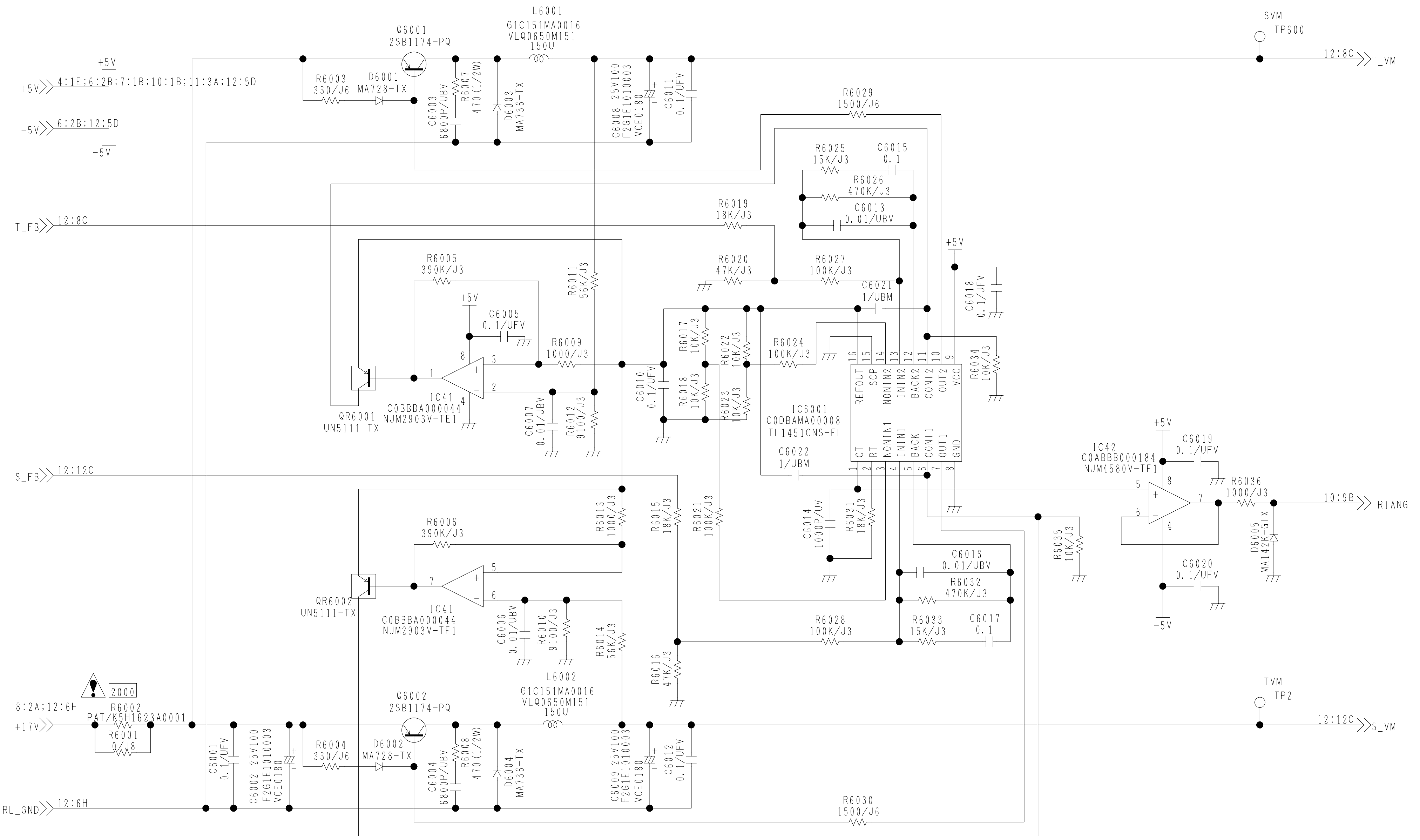
COMPONENT NAME	SERVO(SW2)	8/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82249B	KR 2A0004-1(8/13)	
	SCM087	


+5V
4:1E;6:2B;7:1B;10:1B;11:3A;12:5D
-5V
6:2B;12:5D
R6003
330/J6
D6001
MA728-TX
Q6001
2SB1174-PQ
C6003
6800P/UBV
R6007
470(1/2W)
D6003
MA736-TX
L6001
G1C151MA0016
VLQ0650M151
150U
C6008 25V100
F2G1E1010003
VCE0180
C6011
0.1/UFV
SVM
TP600
12:8C
T_VM
R6029
1500/J6
R6025
15K/J3
C6015
0.1
R6026
470K/J3
C6013
0.01/UBV
T_FB
12:8C
R6019
18K/J3
R6005
390K/J3
R6011
56K/J3
R6020
47K/J3
R6027
100K/J3
C6021
1/UBM
+5V
C6018
0.1/UFV
C6005
0.1/UFV
R6009
1000/J3
R6017
10K/J3
R6022
10K/J3
R6024
100K/J3
R6034
10K/J3
QR6001
UN5111-TX
IC41
C0BBBA000044
NJM2903V-TE1
C6007
0.01/UBV
R6012
9100/J3
C6010
0.1/UFV
R6018
10K/J3
R6023
10K/J3
IC6001
C0DBAMA00008
TL1451CNS-EL
REFOUT SCP NONIN2 ININ2 BACK2 CONT2 OUT2 VCC
CT RT NONIN1 ININ1 BACK CONT1 OUT1 GND
C6022
1/UBM
IC42
C0ABBB000184
NJM4580V-TE1
C6019
0.1/UFV
R6036
1000/J3
10:9B
TRIANG
S_FB
12:12C
R6013
1000/J3
R6015
18K/J3
R6021
100K/J3
C6014
1000P/UV
R6031
18K/J3
R6035
10K/J3
D6005
MA142K-GTX
R6006
390K/J3
C6016
0.01/UBV
R6032
470K/J3
C6020
0.1/UFV
-5V
QR6002
UN5111-TX
IC41
C0BBBA000044
NJM2903V-TE1
C6006
0.01/UBV
R6010
9100/J3
R6014
56K/J3
R6028
100K/J3
R6033
15K/J3
C6017
0.1
R6016
47K/J3
2000
8:2A;12:6H
R6002
PAT/K5H1623A0001
+17V
R6001
0/J8
Q6002
2SB1174-PQ
L6002
G1C151MA0016
VLQ0650M151
150U
TVM
TP2
12:12C
S_VM
C6001
0.1/UFV
C6002 25V100
F2G1E1010003
VCE0180
R6004
330/J6
D6002
MA728-TX
C6004
6800P/UBV
R6008
470(1/2W)
D6004
MA736-TX
C6009 25V100
F2G1E1010003
VCE0180
C6012
0.1/UFV
RL_GND
12:6H
R6030
1500/J6

IMPORTANT SAFETY NOTICE:
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⚠ 警 告

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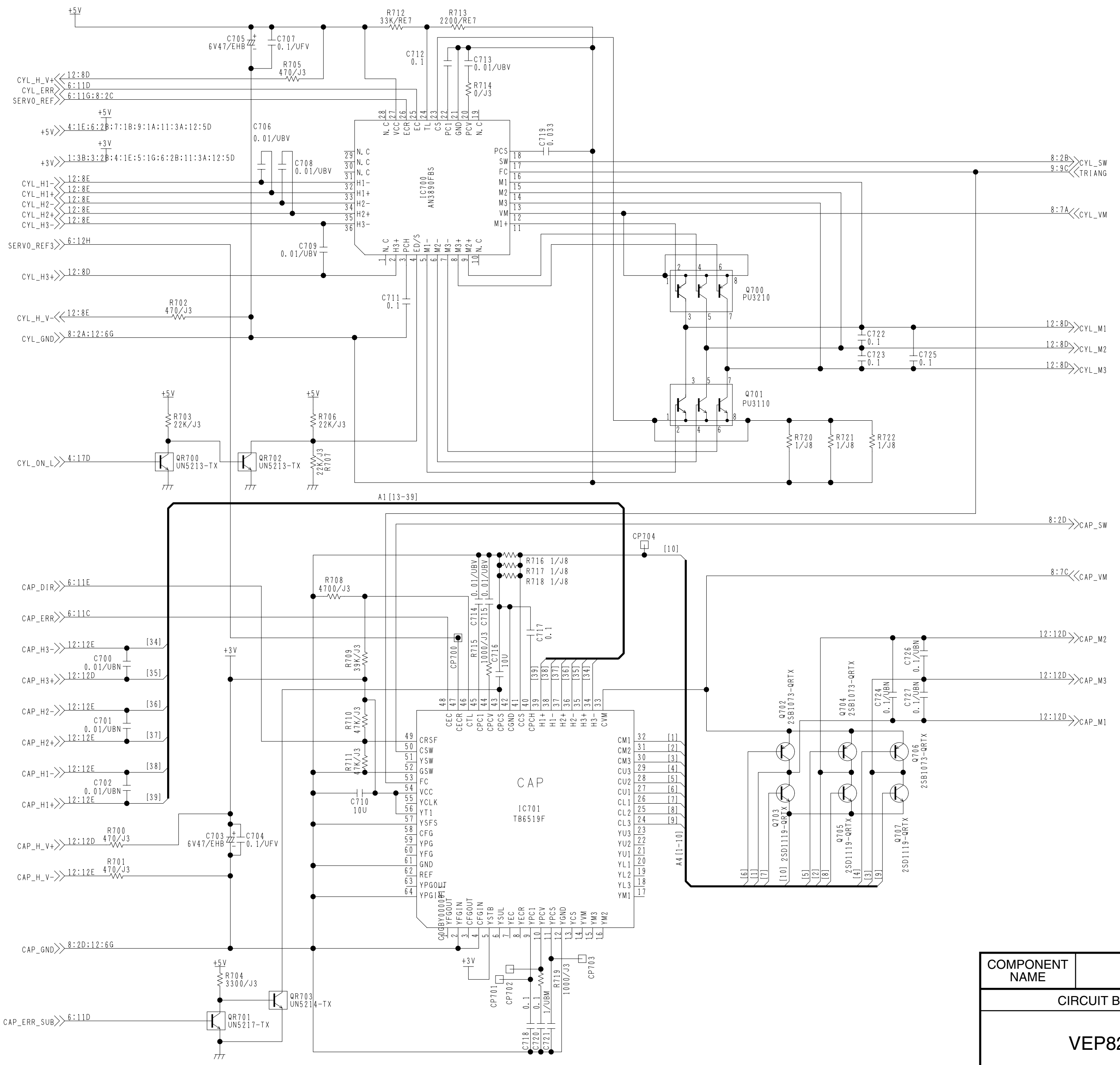
COMPONENT NAME	**SERVO(SW1)**	9/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82249B	KR 2A0004-1(9/13)	
	SCM088	


+5V
R712 33K/RE7
R713 2200/RE7
C705 6V47/EHB
C707 0.1/UFV
C712 0.1
C713 0.01/UBV
R714 0/J3
R705 470/J3
CYL_H_V+ 12:8D
CYL_ERR 6:11D
SERVO_REF 6:11G:8:2C
+5V 4:1E:6:2B:7:1B:9:1A:11:3A:12:5D
+3V 1:3B:3:2B:4:1E:5:1G:6:2B:11:3A:12:5D
C706 0.01/UBV
C708 0.01/UBV
CYL_H1- 12:8E
CYL_H1+ 12:8E
CYL_H2- 12:8E
CYL_H2+ 12:8E
CYL_H3- 12:8E
SERVO_REF3 6:12H
CYL_H3+ 12:8D
C709 0.01/UBV
IC700 AN3890FBS
C719 0.033
C711 0.1
R702 470/J3
CYL_H_V- 12:8E
CYL_GND 8:2A:12:6G
CYL_SW 8:2B
TRIANG 9:9C
CYL_VM 8:7A
Q700 PU3210
Q701 PU3110
C722 0.1
C723 0.1
C725 0.1
CYL_M1 12:8D
CYL_M2 12:8D
CYL_M3 12:8D
R720 1/J8
R721 1/J8
R722 1/J8
R703 22K/J3
R706 22K/J3
R707 22K/J3
QR700 UN5213-TX
QR702 UN5213-TX
CYL_ON_L 4:17D
A1[13-39]
CAP_SW 8:2D
CAP_VM 8:7C
CP704
R716 1/J8
R717 1/J8
R718 1/J8
C714 0.01/UBV
C715 0.01/UBV
R708 4700/J3
CAP_DIR 6:11E
CAP_ERR 6:11C
CP700
R715 1000/J3
C716 10U
C717 0.1
CAP_H3- 12:12E
CAP_H3+ 12:12D
CAP_H2- 12:12E
CAP_H2+ 12:12E
CAP_H1- 12:12E
CAP_H1+ 12:12E
C700 0.01/UBN
C701 0.01/UBN
C702 0.01/UBN
R709 39K/J3
R710 47K/J3
R711 47K/J3
C710 10U
CAP
IC701 TB6519F
A4[1-10]
CAP_M2 12:12D
CAP_M3 12:12D
CAP_M1 12:12D
C724 0.1/UBN
C726 0.1/UBN
C727 0.1/UBN
Q702 2SB1073-QRTX
Q704 2SB1073-QRTX
Q706 2SB1073-QRTX
Q703 2SD1119-QRTX
Q705 2SD1119-QRTX
Q707 2SD1119-QRTX
C703 6V47/EHB
C704 0.1/UFV
R700 470/J3
R701 470/J3
CAP_H_V+ 12:12D
CAP_H_V- 12:12E
CAP_GND 8:2D:12:6G
R704 3300/J3
QR703 UN5214-TX
QR701 UN5217-TX
CAP_ERR_SUB 6:11D
CP701
CP702
CP703
R719 1000/J3
C718 0.1
C720 0.1
C721 1/UBM
A
B
C
D
E
F
G
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I
J
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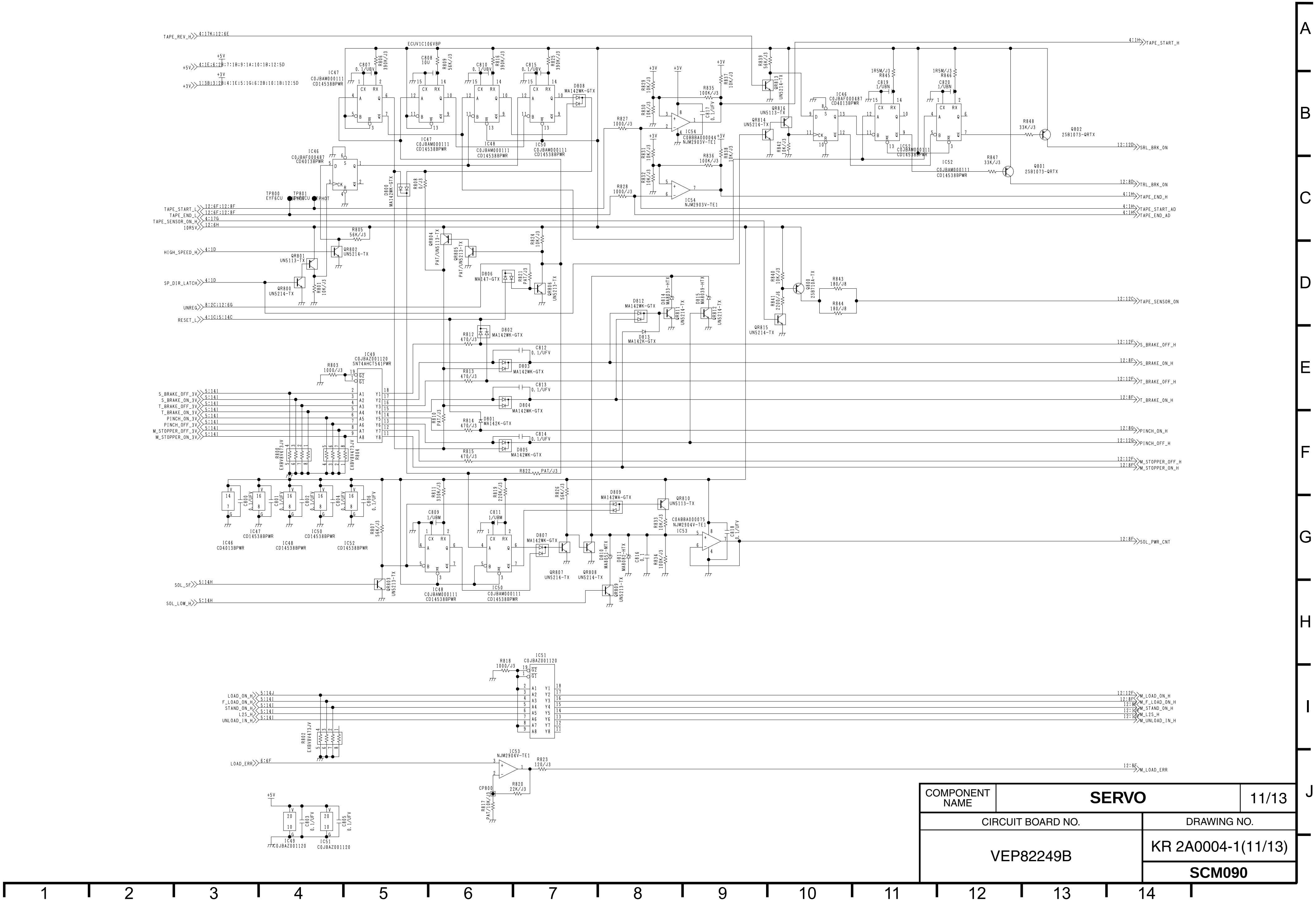
COMPONENT NAME	**SERVO(CA_CY_DRV)**	10/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP82249B		KR 2A0004-1(10/13)
		SCM089


TAPE_REV_H
+5V
+3V
TAPE_START_L
TAPE_END_L
TAPE_SENSOR_ON_H
IOR5V
HIGH_SPEED_H
SP_DIR_LATCH
UNREG
RESET_L
S_BRAKE_OFF_3V
S_BRAKE_ON_3V
T_BRAKE_OFF_3V
T_BRAKE_ON_3V
PINCH_ON_3V
PINCH_OFF_3V
M_STOPPER_OFF_3V
M_STOPPER_ON_3V
SOL_SF
SOL_LOW_H
LOAD_ON_H
F_LOAD_ON_H
STAND_ON_H
L2S_H
UNLOAD_IN_H
LOAD_ERR
TAPE_START_H
SRL_BRK_ON
TRL_BRK_ON
TAPE_END_H
TAPE_START_AD
TAPE_END_AD
TAPE_SENSOR_ON
S_BRAKE_OFF_H
S_BRAKE_ON_H
T_BRAKE_OFF_H
T_BRAKE_ON_H
PINCH_ON_H
PINCH_OFF_H
M_STOPPER_OFF_H
M_STOPPER_ON_H
SOL_PWR_CNT
M_LOAD_ON_H
M_F_LOAD_ON_H
M_STAND_ON_H
M_L2S_H
M_UNLOAD_IN_H
M_LOAD_ERR
IC46 C0JBAF000487 CD4013BPWR
IC47 C0JBAM000111 CD14538BPWR
IC48 C0JBAM000111 CD14538BPWR
IC50 C0JBAM000111 CD14538BPWR
IC52 C0JBAM000111 CD14538BPWR
IC49 C0JBAZ001120 SN74AHCT541PWR
IC51 C0JBAZ001120
IC53 C0ABBA000075 NJM2904V-TE1
IC54 C0BBBA000044 NJM2903V-TE1
Q801 2SB1073-QRTX
Q802 2SB1073-QRTX
Q800 2SB709A-TX
ECUV1C106VBP
A
B
C
D
E
F
G
H
I
J
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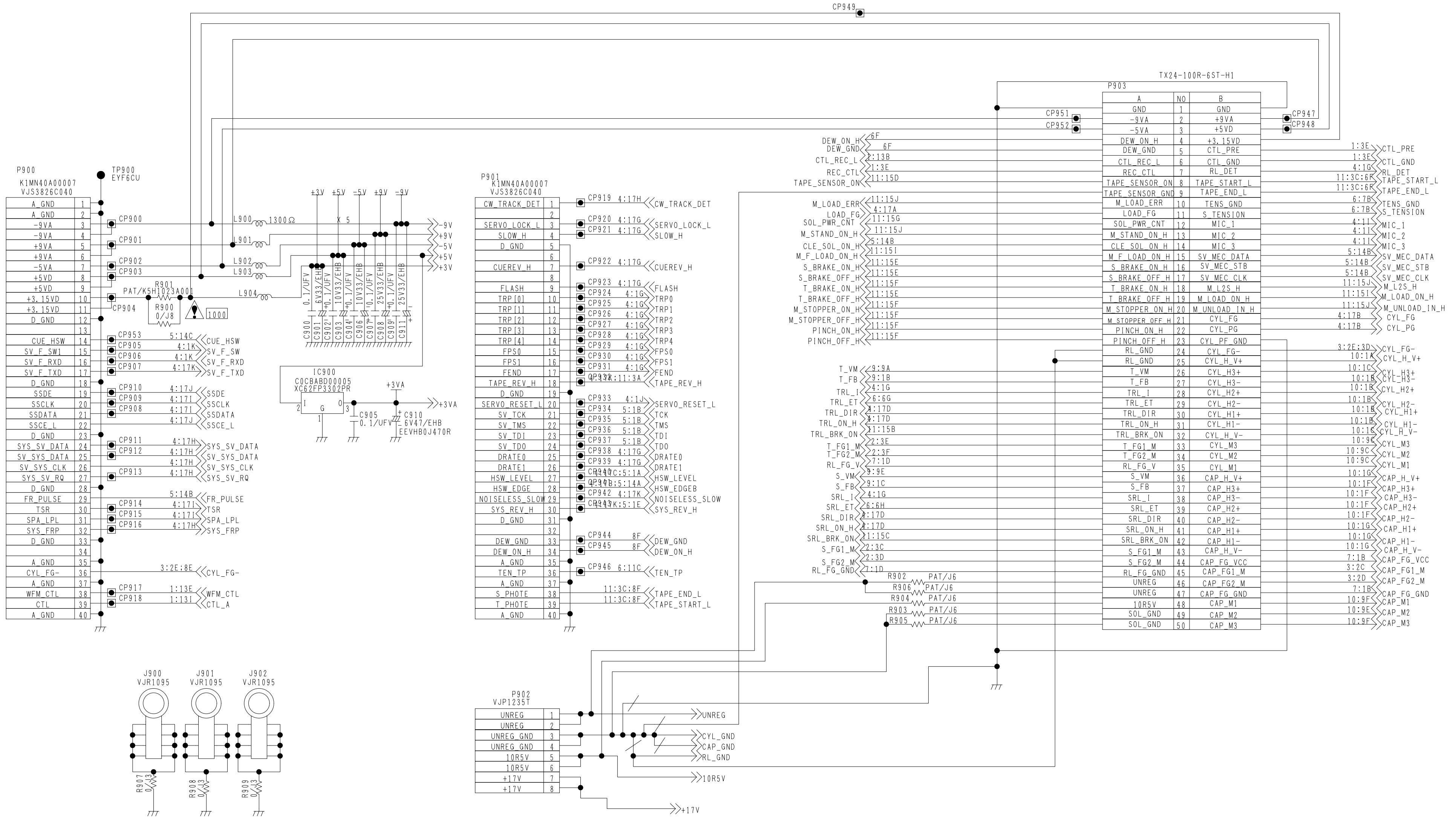
COMPONENT NAME	SERVO	11/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82249B	KR 2A0004-1(11/13)	
	SCM090	


CP949
TX24-100R-6ST-H1
P903
P900
K1MN40A00007
VJS3826C040
TP900
EYF6CU
P901
K1MN40A00007
VJS3826C040
P902
VJP1235T
IC900
C0CBABD00005
XC62FP3302PR
+3VA
C905
0.1/UFV
C910
6V47/EHB
EEVHB0J470R
L900
1300Ω
L901
L902
L903
L904
R901
PAT/K5H1023A001
R900
0/J8
1000
X 5
+3V
+5V
-5V
+9V
-9V
CP900
CP901
CP902
CP903
CP904
CP947
CP948
CP951
CP952
R902 PAT/J6
R903 PAT/J6
R904 PAT/J6
R905 PAT/J6
R906 PAT/J6
J900 VJR1095
J901 VJR1095
J902 VJR1095
R907 0/J3
R908 0/J3
R909 0/J3
UNREG
CYL_GND
CAP_GND
RL_GND
10R5V
+17V
A_GND
-9VA
+9VA
-5VA
+5VD
+3.15VD
D_GND
CUE_HSW
SV_F_SW1
SV_F_RXD
SV_F_TXD
SSDE
SSCLK
SSDATA
SSCE_L
SYS_SV_DATA
SV_SYS_DATA
SV_SYS_CLK
SYS_SV_RQ
FR_PULSE
TSR
SPA_LPL
SYS_FRP
CYL_FG-
WFM_CTL
CTL
CW_TRACK_DET
SERVO_LOCK_L
SLOW_H
CUEREV_H
FLASH
TRP[0]
TRP[1]
TRP[2]
TRP[3]
TRP[4]
FPS0
FPS1
FEND
TAPE_REV_H
SERVO_RESET_L
SV_TCK
SV_TMS
SV_TDI
SV_TDO
DRATE0
DRATE1
HSW_LEVEL
HSW_EDGE
NOISELESS_SLOW
SYS_REV_H
DEW_GND
DEW_ON_H
TEN_TP
S_PHOTE
T_PHOTE
TAPE_END_L
TAPE_START_L
CTL_PRE
CTL_GND
RL_DET
TENS_GND
S_TENSION
MIC_1
MIC_2
MIC_3
SV_MEC_DATA
SV_MEC_STB
SV_MEC_CLK
M_L2S_H
M_LOAD_ON_H
M_UNLOAD_IN_H
CYL_FG
CYL_PG
CYL_PF_GND
CYL_H_V+
CYL_H3+
CYL_H3-
CYL_H2+
CYL_H2-
CYL_H1+
CYL_H1-
CYL_H_V-
CYL_M3
CYL_M2
CYL_M1
CAP_H_V+
CAP_H3+
CAP_H3-
CAP_H2+
CAP_H2-
CAP_H1+
CAP_H1-
CAP_H_V-
CAP_FG_VCC
CAP_FG1_M
CAP_FG2_M
CAP_FG_GND
CAP_M1
CAP_M2
CAP_M3
CTL_REC_L
REC_CTL
TAPE_SENSOR_ON
TAPE_SENSOR_GND
M_LOAD_ERR
LOAD_FG
SOL_PWR_CNT
M_STAND_ON_H
CLE_SOL_ON_H
M_F_LOAD_ON_H
S_BRAKE_ON_H
S_BRAKE_OFF_H
T_BRAKE_ON_H
T_BRAKE_OFF_H
M_STOPPER_ON_H
M_STOPPER_OFF_H
PINCH_ON_H
PINCH_OFF_H
RL_GND
T_VM
T_FB
TRL_I
TRL_ET
TRL_DIR
TRL_ON_H
TRL_BRK_ON
T_FG1_M
T_FG2_M
RL_FG_V
S_VM
S_FB
SRL_I
SRL_ET
SRL_DIR
SRL_ON_H
SRL_BRK_ON
S_FG1_M
S_FG2_M
RL_FG_GND
SOL_GND
+3VA
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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8
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IMPORTANT SAFETY NOTICE:
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

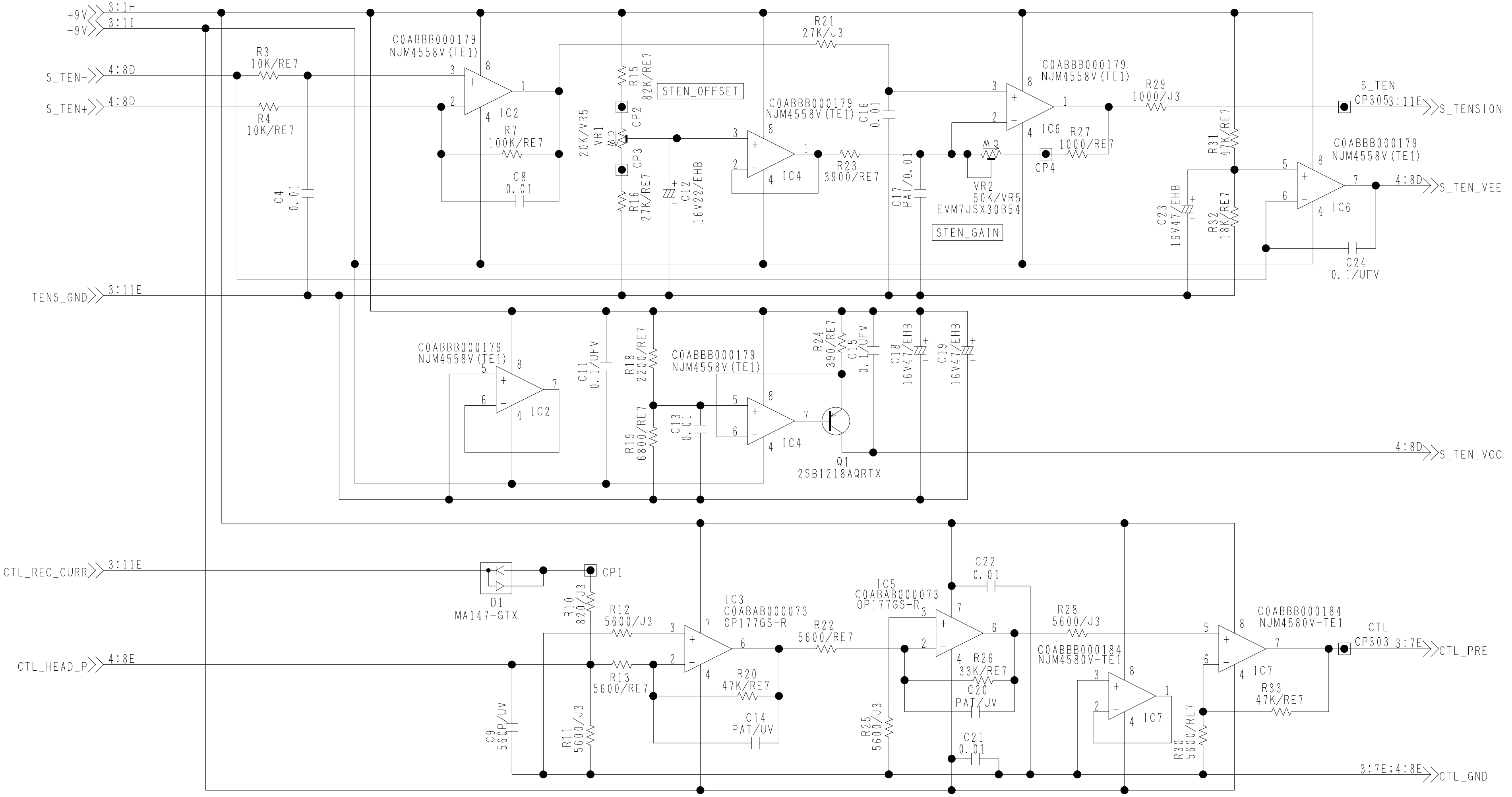
⚠ 警 告

⚠ 印の部品は安全上重要な部品です。
交換するときは、安全上および性能維持のため
必ず指定の部品をご使用ください。

COMPONENT NAME	SERVO	12/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP82249B		KR 2A0004-1(12/13)
		SCM091

SOFT:IP201 MN1030F04KHF			PLD:IP300 X9288L7T144,X9144L7T100		
VSI4190			VSI4198		

COMPONENT NAME	SERVO(SOFT)		13/13
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82249B		KR 2A0004-1(13/13)	
		SCM092	


+9V
-9V
3:1H
3:1I
S_TEN-
S_TEN+
4:8D
TENS_GND
3:11E
CTL_REC_CURR
CTL_HEAD_P
4:8E
R3 10K/RE7
R4 10K/RE7
C4 0.01
C0ABBB000179 NJM4558V(TE1)
IC2
R7 100K/RE7
C8 0.01
R15 82K/RE7
CP2
20K/VR5 VR1
CP3
R16 27K/RE7
STEN_OFFSET
C12 16V22/EHB
R21 27K/J3
IC4
R23 3900/RE7
C16 0.01
C17 PAT/0.01
VR2 50K/VR5 EVM7JSX30B54
STEN_GAIN
IC6
CP4
R27 1000/RE7
R29 1000/J3
S_TEN
CP305 3:11E
S_TENSION
R31 47K/RE7
R32 18K/RE7
C23 16V47/EHB
C24 0.1/UFV
4:8D
S_TEN_VEE
C11 0.1/UFV
R18 2200/RE7
R19 6800/RE7
C13 0.01
R24 390/RE7
C15 0.1/UFV
C18 16V47/EHB
C19 16V47/EHB
Q1 2SB1218AQRTX
S_TEN_VCC
D1 MA147-GTX
CP1
R10 820/J3
R12 5600/J3
R13 5600/RE7
R11 5600/J3
C9 560P/UV
IC3 C0ABAB000073 OP177GS-R
R20 47K/RE7
C14 PAT/UV
R22 5600/RE7
IC5 C0ABAB000073 OP177GS-R
C22 0.01
R26 33K/RE7
C20 PAT/UV
R25 5600/J3
C21 0.01
R28 5600/J3
C0ABBB000184 NJM4580V-TE1
IC7
R30 5600/RE7
R33 47K/RE7
CTL
CP303 3:7E
CTL_PRE
3:7E;4:8E
CTL_GND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
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9
10
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12
13
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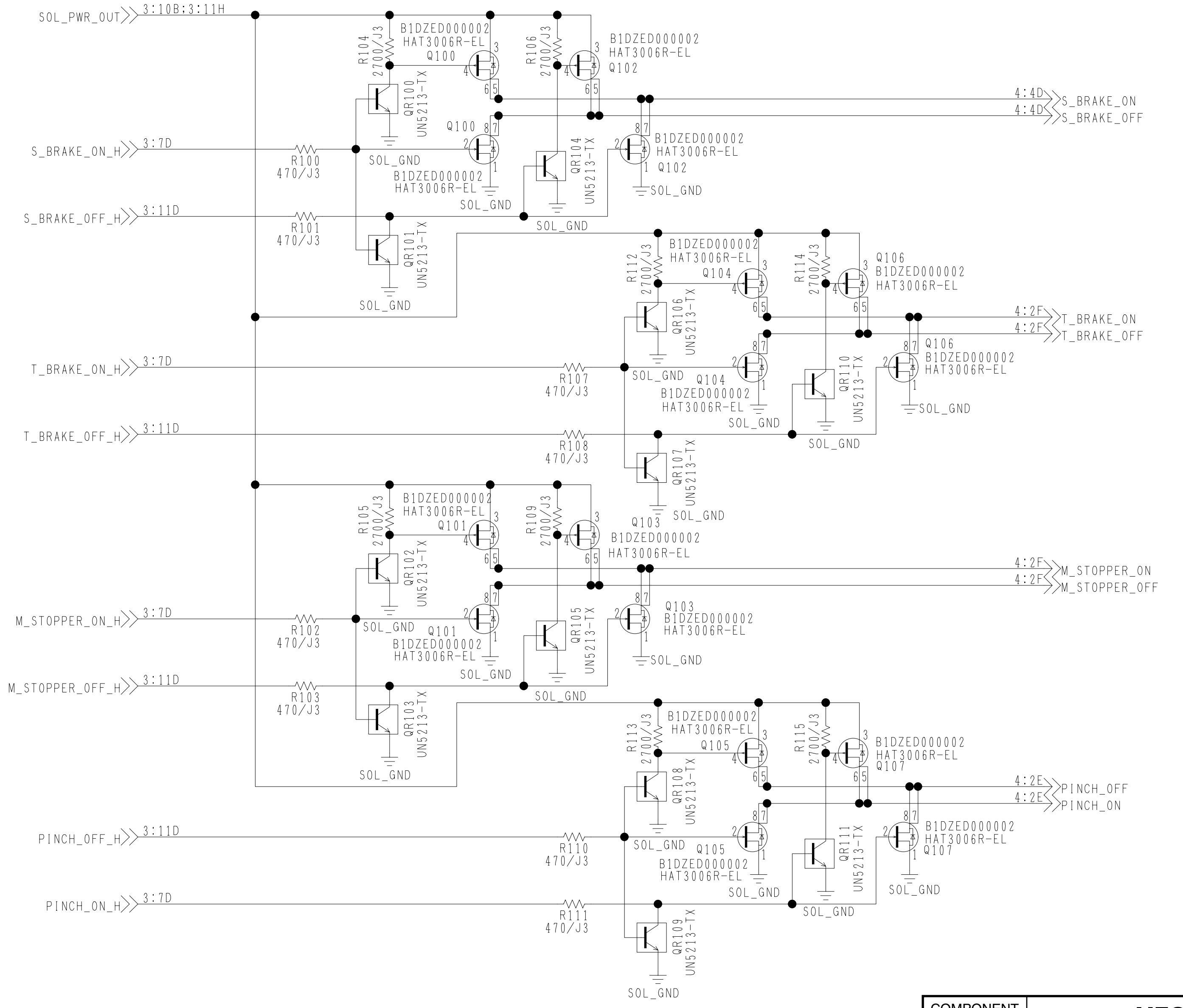
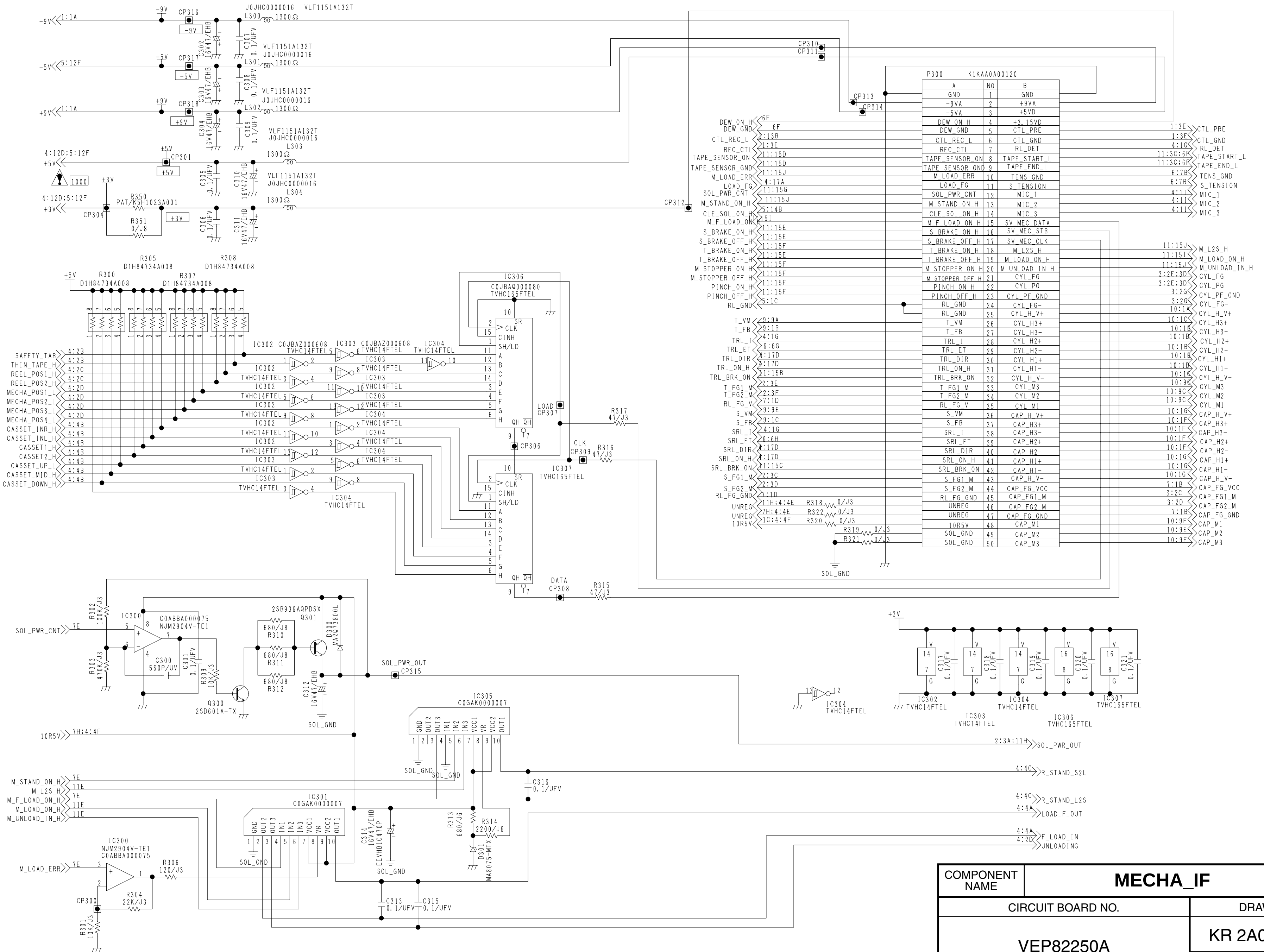
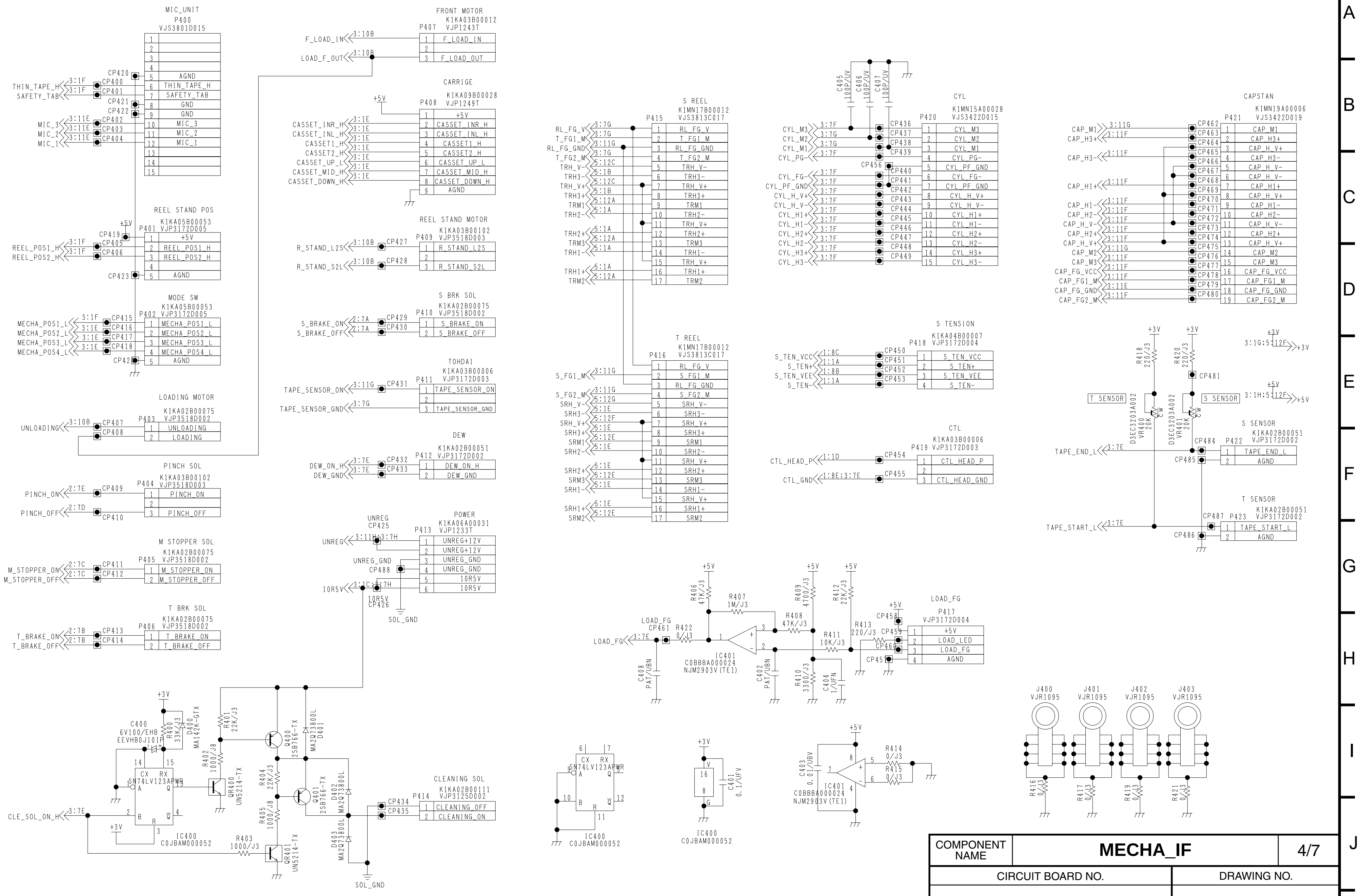
COMPONENT NAME	**MECHA_IF**	1/7
CIRCUIT BOARD NO.		DRAWING NO.
VEP82250A		KR 2A0003-1(1/7)
		SCM093


SOL_PWR_OUT
3:10B;3:11H
S_BRAKE_ON_H
3:7D
S_BRAKE_OFF_H
3:11D
T_BRAKE_ON_H
3:7D
T_BRAKE_OFF_H
3:11D
M_STOPPER_ON_H
3:7D
M_STOPPER_OFF_H
3:11D
PINCH_OFF_H
3:11D
PINCH_ON_H
3:7D
R100 470/J3
R101 470/J3
R102 470/J3
R103 470/J3
R107 470/J3
R108 470/J3
R110 470/J3
R111 470/J3
R104 2700/J3
R105 2700/J3
R106 2700/J3
R109 2700/J3
R112 2700/J3
R113 2700/J3
R114 2700/J3
R115 2700/J3
Q100 B1DZED000002 HAT3006R-EL
Q101 B1DZED000002 HAT3006R-EL
Q102 B1DZED000002 HAT3006R-EL
Q103 B1DZED000002 HAT3006R-EL
Q104 B1DZED000002 HAT3006R-EL
Q105 B1DZED000002 HAT3006R-EL
Q106 B1DZED000002 HAT3006R-EL
Q107 B1DZED000002 HAT3006R-EL
QR100 UN5213-TX
QR101 UN5213-TX
QR102 UN5213-TX
QR103 UN5213-TX
QR104 UN5213-TX
QR105 UN5213-TX
QR106 UN5213-TX
QR107 UN5213-TX
QR108 UN5213-TX
QR109 UN5213-TX
QR110 UN5213-TX
QR111 UN5213-TX
SOL_GND
4:4D S_BRAKE_ON
4:4D S_BRAKE_OFF
4:2F T_BRAKE_ON
4:2F T_BRAKE_OFF
4:2F M_STOPPER_ON
4:2F M_STOPPER_OFF
4:2E PINCH_OFF
4:2E PINCH_ON

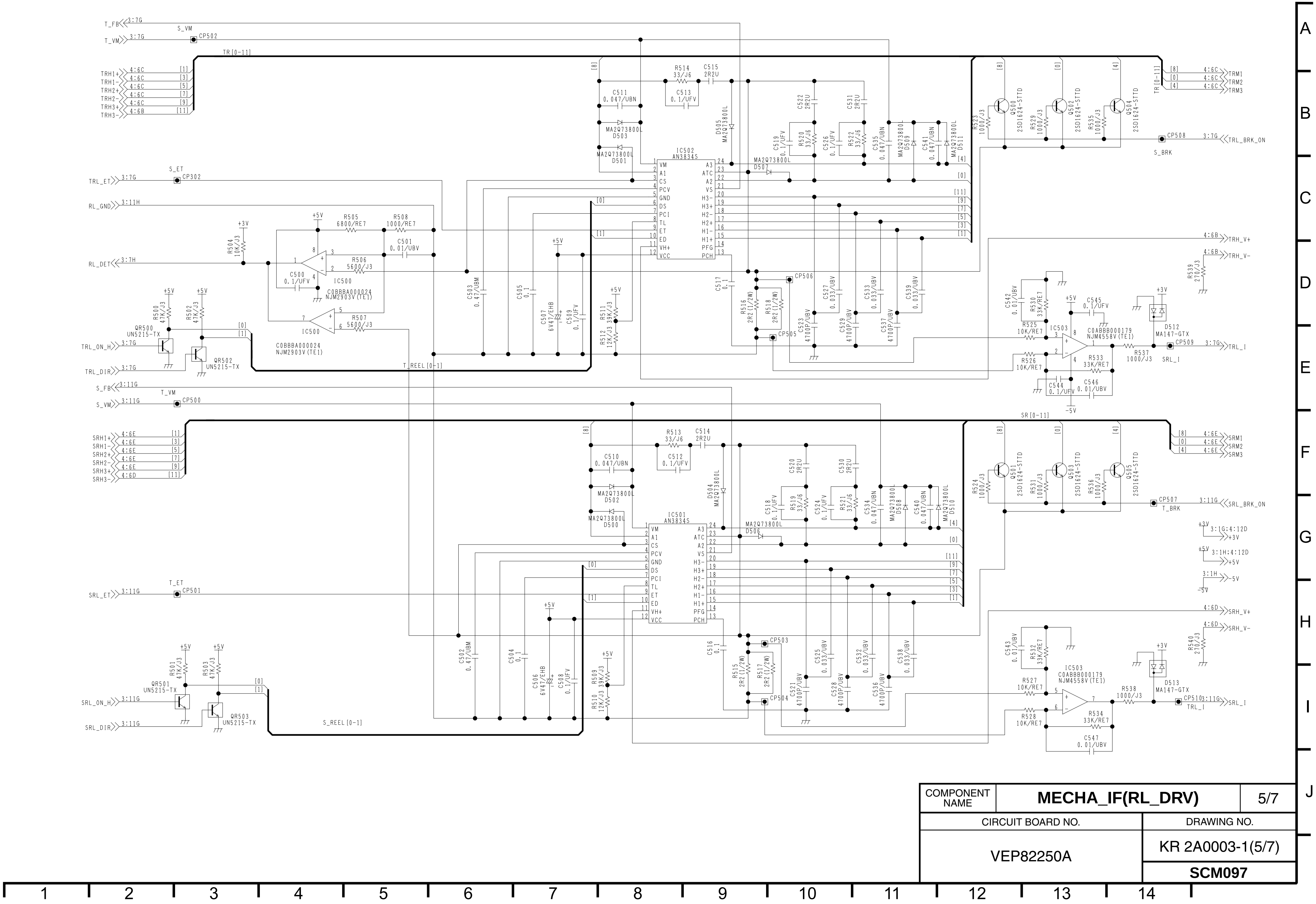
COMPONENT NAME	MECHA_IF	2/7
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82250A	KR 2A0003-1(2/7) SCM094	


-9V 1:1A
-5V 5:12F
+9V 1:1A
+5V 4:12D:5:12F
+3V 4:12D:5:12F
CP316 -9V
CP317 -5V
CP318 +9V
CP301 +5V
CP304 +3V
C302 16V47/EHB
C303 16V47/EHB
C304 16V47/EHB
C307 0.1/UFV
C308 0.1/UFV
C309 0.1/UFV
C305 0.1/UFV
C306 0.1/UFV
C310 16V47/EHB
C311 16V47/EHB
L300 1300Ω J0JHC0000016 VLF1151A132T
L301 1300Ω
L302 1300Ω
L303 1300Ω
L304 1300Ω
R350 PAT/K5H1023A001
R351 0/J8
1000
CP310
CP311
CP312
CP313
CP314
P300 K1KAA0A00120
A | NO | B
GND | 1 | GND
-9VA | 2 | +9VA
-5VA | 3 | +5VD
DEW_ON_H | 4 | +3.15VD
DEW_GND | 5 | CTL_PRE
CTL_REC_L | 6 | CTL_GND
REC_CTL | 7 | RL_DET
TAPE_SENSOR_ON | 8 | TAPE_START_L
TAPE_SENSOR_GND | 9 | TAPE_END_L
M_LOAD_ERR | 10 | TENS_GND
LOAD_FG | 11 | S_TENSION
SOL_PWR_CNT | 12 | MIC_1
M_STAND_ON_H | 13 | MIC_2
CLE_SOL_ON_H | 14 | MIC_3
M_F_LOAD_ON_H | 15 | SV_MEC_DATA
S_BRAKE_ON_H | 16 | SV_MEC_STB
S_BRAKE_OFF_H | 17 | SV_MEC_CLK
T_BRAKE_ON_H | 18 | M_L2S_H
T_BRAKE_OFF_H | 19 | M_LOAD_ON_H
M_STOPPER_ON_H | 20 | M_UNLOAD_IN_H
M_STOPPER_OFF_H | 21 | CYL_FG
PINCH_ON_H | 22 | CYL_PG
PINCH_OFF_H | 23 | CYL_PF_GND
RL_GND | 24 | CYL_FG-
RL_GND | 25 | CYL_H_V+
T_VM | 26 | CYL_H3+
T_FB | 27 | CYL_H3-
TRL_I | 28 | CYL_H2+
TRL_ET | 29 | CYL_H2-
TRL_DIR | 30 | CYL_H1+
TRL_ON_H | 31 | CYL_H1-
TRL_BRK_ON | 32 | CYL_H_V-
T_FG1_M | 33 | CYL_M3
T_FG2_M | 34 | CYL_M2
RL_FG_V | 35 | CYL_M1
S_VM | 36 | CAP_H_V+
S_FB | 37 | CAP_H3+
SRL_I | 38 | CAP_H3-
SRL_ET | 39 | CAP_H2+
SRL_DIR | 40 | CAP_H2-
SRL_ON_H | 41 | CAP_H1+
SRL_BRK_ON | 42 | CAP_H1-
S_FG1_M | 43 | CAP_H_V-
S_FG2_M | 44 | CAP_FG_VCC
RL_FG_GND | 45 | CAP_FG1_M
UNREG | 46 | CAP_FG2_M
UNREG | 47 | CAP_FG_GND
10R5V | 48 | CAP_M1
SOL_GND | 49 | CAP_M2
SOL_GND | 50 | CAP_M3
R318 0/J3
R322 0/J3
R320 0/J3
R319 0/J3
R321 0/J3
SOL_GND
R300 D1H84734A008
R305 D1H84734A008
R307 D1H84734A008
R308 D1H84734A008
SAFETY_TAB 4:2B
THIN_TAPE_H 4:2B
REEL_POS1_H 4:2C
REEL_POS2_H 4:2C
MECHA_POS1_L 4:2D
MECHA_POS2_L 4:2D
MECHA_POS3_L 4:2D
MECHA_POS4_L 4:2D
CASSET_INR_H 4:4B
CASSET_INL_H 4:4B
CASSET1_H 4:4B
CASSET2_H 4:4B
CASSET_UP_L 4:4B
CASSET_MID_H 4:4B
CASSET_DOWN_H 4:4B
IC302 C0JBAZ000608 TVHC14FTEL
IC303 C0JBAZ000608 TVHC14FTEL
IC304 TVHC14FTEL
IC306 C0JBAQ000080 TVHC165FTEL
IC307 TVHC165FTEL
CLK CINH SH/LD SR A B C D E F G H QH
LOAD CP307
CP306
CLK CP309
DATA CP308
R317 47/J3
R316 47/J3
R315 47/J3
IC300 C0ABBA000075 NJM2904V-TE1
SOL_PWR_CNT 7E
R302 100K/J3
R303 470K/J3
C300 560P/UV
C301 0.1/UFV
R309 10K/J3
Q300 2SD601A-TX
2SB936AQPDSX Q301
R310 680/J8
R311 680/J8
R312 680/J8
D300 MA2Q73800L
C312 16V47/EHB
SOL_GND
SOL_PWR_OUT CP315
IC305 C0GAK0000007
GND OUT2 OUT3 IN1 IN2 IN3 VCC1 VR VCC2 OUT1
10R5V 7H:4:4F
M_STAND_ON_H 7E
M_L2S_H 11E
M_F_LOAD_ON_H 7E
M_LOAD_ON_H 11E
M_UNLOAD_IN_H 11E
IC301 C0GAK0000007
C314 16V47/EHB EEVHB1C470P
R313 680/J6
R314 2200/J6
D301 MA8075-MTX
C316 0.1/UFV
C313 0.1/UFV
C315 0.1/UFV
IC300 NJM2904V-TE1 C0ABBA000075
M_LOAD_ERR 7E
R306 120/J3
R304 22K/J3
CP300
R301 10K/J3
2:3A:11H SOL_PWR_OUT
4:4C R_STAND_S2L
4:4C R_STAND_L2S
4:4A LOAD_F_OUT
4:4A F_LOAD_IN
4:2D UNLOADING
+3V
C317 0.1/UFV
C318 0.1/UFV
C319 0.1/UFV
C320 0.1/UFV
C321 0.1/UFV
IC302 TVHC14FTEL
IC303 TVHC14FTEL
IC304 TVHC14FTEL
IC306 TVHC165FTEL
IC307 TVHC165FTEL

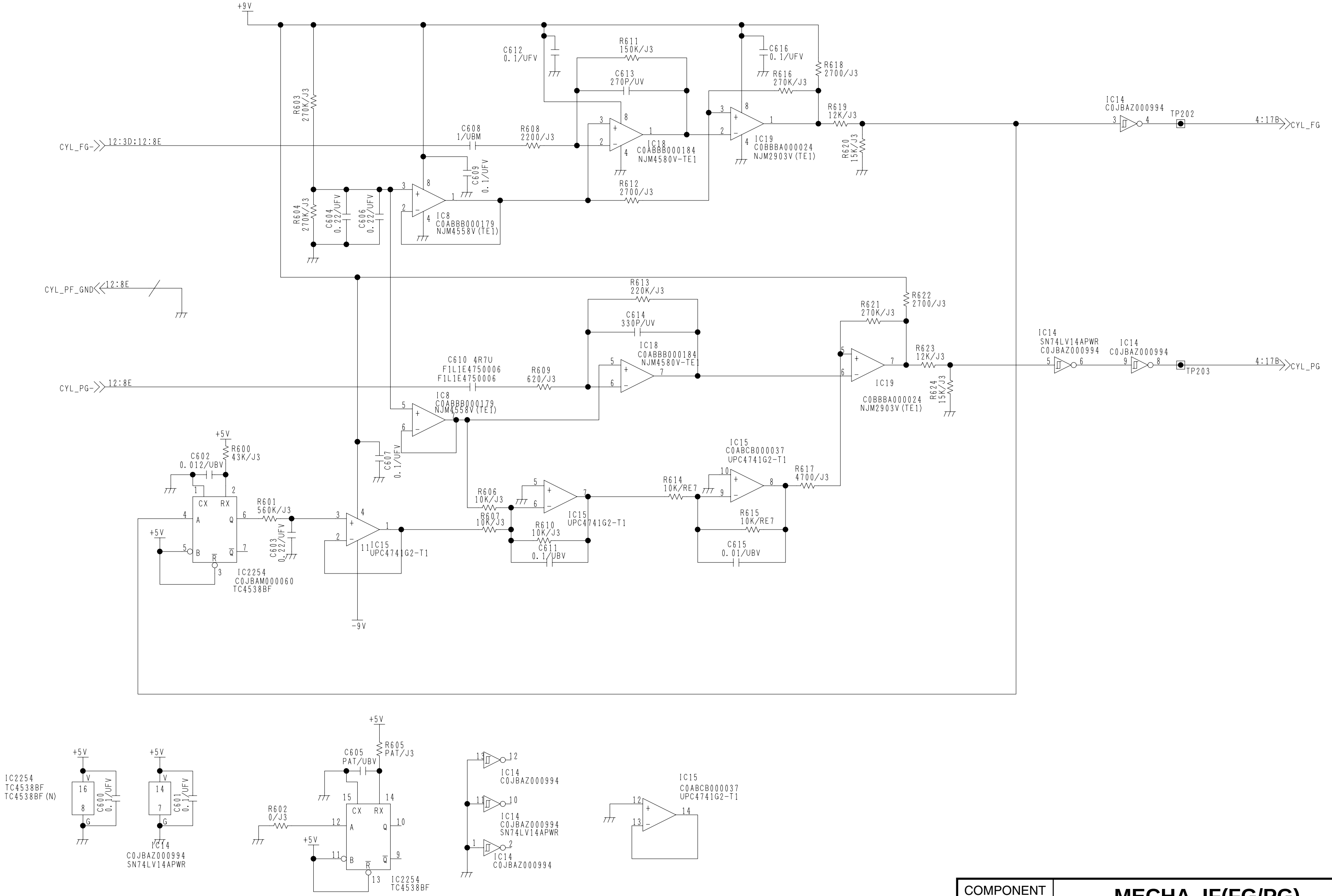
COMPONENT NAME	MECHA_IF	3/7
CIRCUIT BOARD NO.		DRAWING NO.
VEP82250A		KR 2A0003-1(3/7)
		SCM095


MIC_UNIT
P400
VJS3801D015
THIN_TAPE_H
SAFETY_TAB
AGND
GND
MIC_3
MIC_2
MIC_1
REEL STAND POS
P401
K1KA05B00053
VJP3172D005
REEL_POS1_H
REEL_POS2_H
MODE SW
P402
K1KA05B00053
VJP3172D005
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
MECHA_POS4_L
LOADING MOTOR
P403
K1KA02B00075
VJP3518D002
UNLOADING
LOADING
PINCH SOL
P404
K1KA03B00102
VJP3518D003
PINCH_ON
PINCH_OFF
M STOPPER SOL
P405
K1KA02B00075
VJP3518D002
M_STOPPER_ON
M_STOPPER_OFF
T BRK SOL
P406
K1KA02B00075
VJP3518D002
T_BRAKE_ON
T_BRAKE_OFF
FRONT MOTOR
P407
K1KA03B00012
VJP1243T
F_LOAD_IN
LOAD_F_OUT
CARRIGE
P408
K1KA09B00028
VJP1249T
CASSET_INR_H
CASSET_INL_H
CASSET1_H
CASSET2_H
CASSET_UP_L
CASSET_MID_H
CASSET_DOWN_H
REEL STAND MOTOR
P409
K1KA03B00102
VJP3518D003
R_STAND_L2S
R_STAND_S2L
S BRK SOL
P410
K1KA02B00075
VJP3518D002
S_BRAKE_ON
S_BRAKE_OFF
TOHDAI
P411
K1KA03B00006
VJP3172D003
TAPE_SENSOR_ON
TAPE_SENSOR_GND
DEW
P412
K1KA02B00051
VJP3172D002
DEW_ON_H
DEW_GND
POWER
P413
K1KA06A00031
VJP1233T
UNREG
UNREG+12V
UNREG_GND
10R5V
SOL_GND
CLEANING SOL
P414
K1KA02B00111
VJP3125D002
CLEANING_OFF
CLEANING_ON
CLE_SOL_ON_H
IC400
C0JBAM000052
SN74LV123APWR
C400
6V100/EHB
EEVHB0J101P
R400 33K/J3
D400 MA142K-GTX
R401 22K/J3
R402 1000/J8
QR400 UN5214-TX
Q400 2SB766-TX
D401 MA2Z3800L
R404 22K/J3
R405 1000/J8
Q401 2SB766-TX
D402 MA2Z3800L
D403 MA2Z3800L
R403 1000/J3
QR401 UN5214-TX
S REEL
P415
K1MN17B00012
VJS3813C017
RL_FG_V
T_FG1_M
RL_FG_GND
T_FG2_M
TRH_V-
TRH3-
TRH_V+
TRH3+
TRM1
TRH2-
TRH2+
TRM3
TRH1-
TRH1+
TRM2
T REEL
P416
K1MN17B00012
VJS3813C017
S_FG1_M
S_FG2_M
SRH_V-
SRH3-
SRH_V+
SRH3+
SRM1
SRH2-
SRH2+
SRM3
SRH1-
SRH1+
SRM2
CYL
P420
K1MN15A00028
VJS3422D015
C405 100P/UV
C406 100P/UV
C407 100P/UV
CYL_M3
CYL_M2
CYL_M1
CYL_PG-
CYL_PF_GND
CYL_FG-
CYL_H_V+
CYL_H_V-
CYL_H1+
CYL_H1-
CYL_H2+
CYL_H2-
CYL_H3+
CYL_H3-
CAPSTAN
P421
K1MN19A00006
VJS3422D019
CAP_M1
CAP_H3+
CAP_H_V+
CAP_H3-
CAP_H_V-
CAP_H1+
CAP_H1-
CAP_H2-
CAP_H2+
CAP_M2
CAP_M3
CAP_FG_VCC
CAP_FG1_M
CAP_FG_GND
CAP_FG2_M
S TENSION
P418
K1KA04B00007
VJP3172D004
S_TEN_VCC
S_TEN+
S_TEN_VEE
S_TEN-
CTL
P419
K1KA03B00006
VJP3172D003
CTL_HEAD_P
CTL_HEAD_GND
R418 220/J3
R420 220/J3
T SENSOR
S SENSOR
VR400 D3EC3203A002 20K
VR401 D3EC3203A002 20K
S SENSOR
P422
K1KA02B00051
VJP3172D002
TAPE_END_L
T SENSOR
P423
K1KA02B00051
VJP3172D002
TAPE_START_L
LOAD_FG
P417
VJP3172D004
LOAD_LED
R406 47K/J3
R407 1M/J3
R408 47K/J3
R409 4700/J3
R410 3300/J3
R411 10K/J3
R412 22K/J3
R413 220/J3
R422 0/J3
C408 PAT/UBN
C402 PAT/UBN
C404 1/UFN
IC401
C0BBBA000024
NJM2903V(TE1)
IC400
C0JBAM000052
SN74LV123APWR
C401 0.1/UFV
C403 0.01/UBV
R414 0/J3
R415 0/J3
J400 VJR1095
J401 VJR1095
J402 VJR1095
J403 VJR1095
R416 0/J3
R417 0/J3
R419 0/J3
R421 0/J3

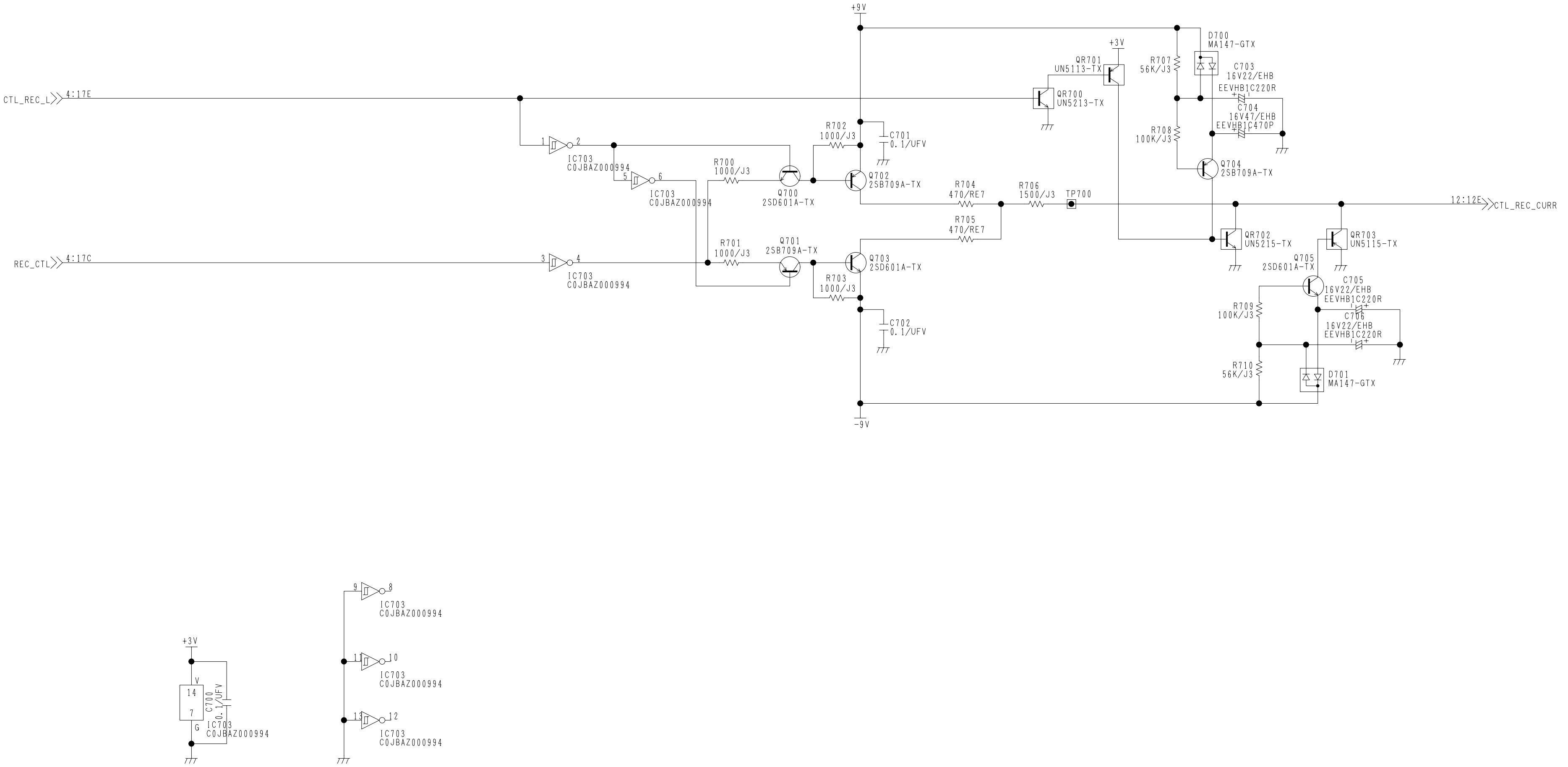
COMPONENT NAME	MECHA_IF	4/7
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82250A	KR 2A0003-1(4/7) SCM096	


T_FB 3:7G
T_VM 3:7G
S_VM CP502
TR[0-11]
TRH1+ TRH1- TRH2+ TRH2- TRH3+ TRH3-
TRL_ET 3:7G
S_ET CP302
RL_GND 3:11H
RL_DET 3:7H
TRL_ON_H 3:7G
TRL_DIR 3:7G
QR500 UN5215-TX
QR502 UN5215-TX
R500 47K/J3
R502 47K/J3
R504 10K/J3
R505 6800/RE7
R506 5600/J3
R507 5600/J3
R508 1000/RE7
C500 0.1/UFV
C501 0.01/UBV
IC500 C0BBBA000024 NJM2903V(TE1)
T_REEL[0-1]
C503 0.47/UBM
C505 0.1
C507 6V47/EHB
C509 0.1/UFV
R511 33K/J3
R512 12K/J3
R514 33/J6
C515 2R2U
C511 0.047/UBN
C513 0.1/UFV
D503 MA2Q73800L
D501 MA2Q73800L
D505 MA2Q73800L
D507 MA2Q73800L
IC502 AN3834S
VM A1 CS PCV GND DS PCI TL ET ED VH+ VCC
A3 ATC A2 VS H3- H3+ H2- H2+ H1- H1+ PFG PCH
C517 0.1
R516 2R2(1/2W)
R518 2R2(1/2W)
CP506
CP505
C519 0.1/UFV
R520 33/J6
C522 2R2U
C526 0.1/UFV
R522 33/J6
C531 2R2U
C535 0.047/UBN
D509 MA2Q73800L
C541 0.047/UBN
D511 MA2Q73800L
C523 4700P/UBV
C527 0.033/UBV
C529 4700P/UBV
C533 0.033/UBV
C537 4700P/UBV
C539 0.033/UBV
Q500 2SD1624-STTD
Q502 2SD1624-STTD
Q504 2SD1624-STTD
R523 1000/J3
R529 1000/J3
R535 1000/J3
TRM1 TRM2 TRM3
CP508 S_BRK 3:7G TRL_BRK_ON
TRH_V+ 4:6B
TRH_V- 4:6B
R539 270/J3
C542 0.01/UBV
R530 33K/RE7
R525 10K/RE7
R526 10K/RE7
IC503 C0ABBB000179 NJM4558V(TE1)
C545 0.1/UFV
R533 33K/RE7
R537 1000/J3
C544 0.1/UFV
C546 0.01/UBV
D512 MA147-GTX
CP509 SRL_I 3:7G TRL_I
-5V +5V +3V
S_FB 3:11G
S_VM 3:11G
T_VM CP500
SR[0-11]
SRH1+ SRH1- SRH2+ SRH2- SRH3+ SRH3-
SRL_ET 3:11G
T_ET CP501
SRL_ON_H 3:11G
SRL_DIR 3:11G
QR501 UN5215-TX
QR503 UN5215-TX
R501 47K/J3
R503 47K/J3
S_REEL[0-1]
C502 0.47/UBM
C504 0.1
C506 6V47/EHB
C508 0.1/UFV
R509 33K/J3
R510 12K/J3
R513 33/J6
C514 2R2U
C510 0.047/UBN
C512 0.1/UFV
D502 MA2Q73800L
D500 MA2Q73800L
D504 MA2Q73800L
D506 MA2Q73800L
IC501 AN3834S
C516 0.1
R515 2R2(1/2W)
R517 2R2(1/2W)
CP503
CP504
C518 0.1/UFV
R519 33/J6
C520 2R2U
C524 0.1/UFV
R521 33/J6
C530 2R2U
C534 0.047/UBN
D508 MA2Q73800L
C540 0.047/UBN
D510 MA2Q73800L
C521 4700P/UBV
C525 0.033/UBV
C528 4700P/UBV
C532 0.033/UBV
C536 4700P/UBV
C538 0.033/UBV
Q501 2SD1624-STTD
Q503 2SD1624-STTD
Q505 2SD1624-STTD
R524 1000/J3
R531 1000/J3
R536 1000/J3
SRM1 SRM2 SRM3
CP507 T_BRK 3:11G SRL_BRK_ON
+3V 3:1G;4:12D
+5V 3:1H;4:12D
-5V 3:1H
SRH_V+ 4:6D
SRH_V- 4:6D
R540 270/J3
C543 0.01/UBV
R532 33K/RE7
R527 10K/RE7
R528 10K/RE7
IC503 C0ABBB000179 NJM4558V(TE1)
R534 33K/RE7
R538 1000/J3
C547 0.01/UBV
D513 MA147-GTX
CP510 3:11G TRL_I SRL_I
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

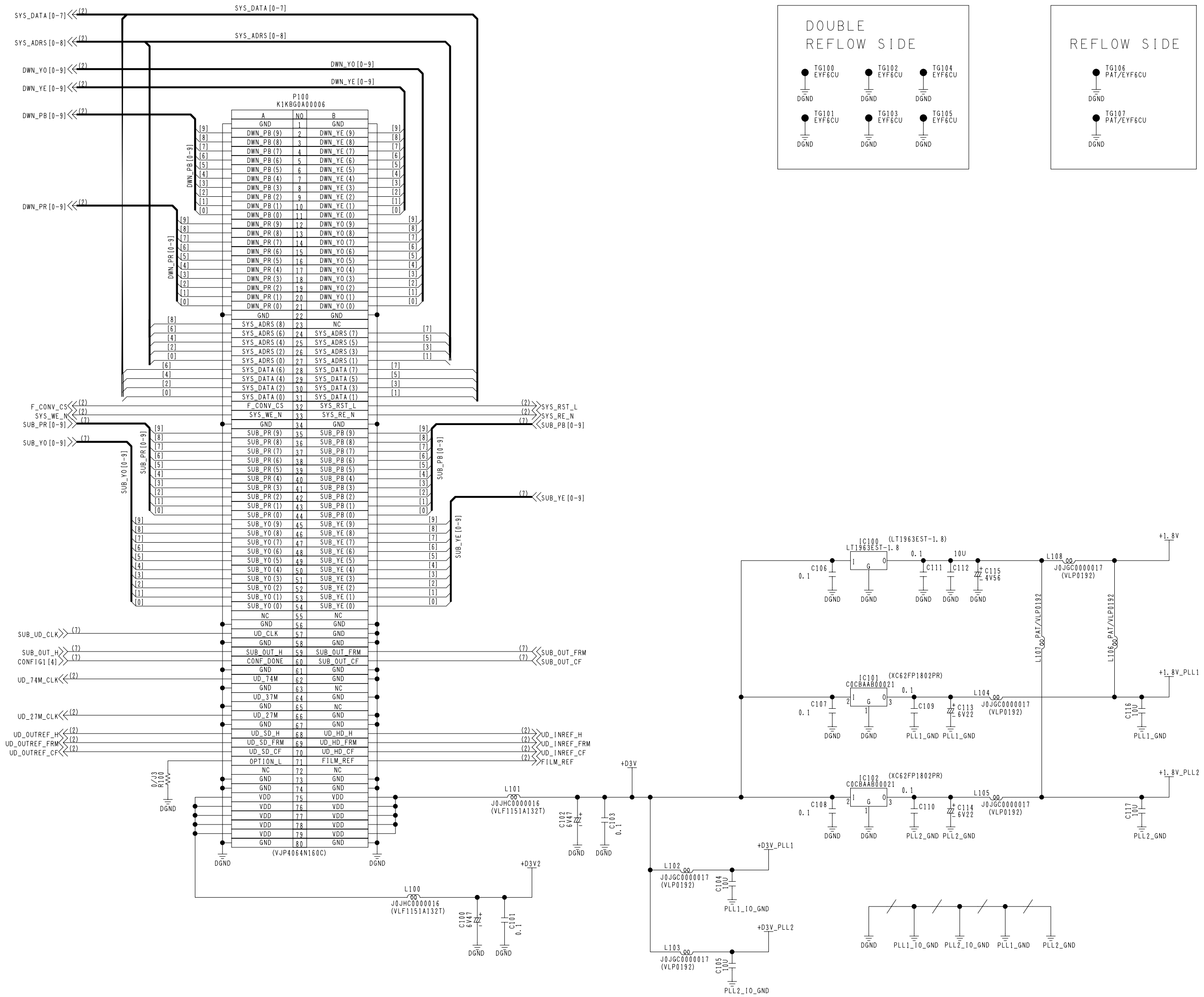
COMPONENT NAME	MECHA_IF(RL_DRV)	5/7
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82250A	KR 2A0003-1(5/7)	
	SCM097	


+9V
CYL_FG
12:3D:12:8E
CYL_PF_GND
12:8E
CYL_PG
12:8E
R603
270K/J3
R604
270K/J3
C604
0.22/UFV
C606
0.22/UFV
C608
1/UBM
C609
0.1/UFV
IC8
C0ABBB000179
NJM4558V(TE1)
R608
2200/J3
C612
0.1/UFV
R611
150K/J3
C613
270P/UV
IC18
C0ABBB000184
NJM4580V-TE1
R612
2700/J3
C616
0.1/UFV
R616
270K/J3
R618
2700/J3
IC19
C0BBBA000024
NJM2903V(TE1)
R619
12K/J3
R620
15K/J3
IC14
C0JBAZ000994
TP202
4:17B
CYL_FG
R622
2700/J3
R613
220K/J3
C614
330P/UV
R621
270K/J3
R623
12K/J3
R624
15K/J3
C610 4R7U
F1L1E4750006
F1L1E4750006
R609
620/J3
IC14
SN74LV14APWR
C0JBAZ000994
IC14
C0JBAZ000994
TP203
4:17B
CYL_PG
+5V
R600
43K/J3
C602
0.012/UBV
CX
RX
A
Q
B
R
Q
R601
560K/J3
C603
0.22/UFV
C607
0.1/UFV
IC2254
C0JBAM000060
TC4538BF
IC15
UPC4741G2-T1
-9V
R606
10K/J3
R607
10K/J3
R610
10K/J3
C611
0.1/UBV
IC15
UPC4741G2-T1
R614
10K/RE7
IC15
C0ABCB000037
UPC4741G2-T1
R615
10K/RE7
C615
0.01/UBV
R617
4700/J3
IC2254
TC4538BF
TC4538BF(N)
C600
0.1/UFV
C601
0.1/UFV
IC14
C0JBAZ000994
SN74LV14APWR
C605
PAT/UBV
R605
PAT/J3
R602
0/J3
IC2254
TC4538BF
IC14
C0JBAZ000994
IC14
C0JBAZ000994
SN74LV14APWR
IC14
C0JBAZ000994
IC15
C0ABCB000037
UPC4741G2-T1

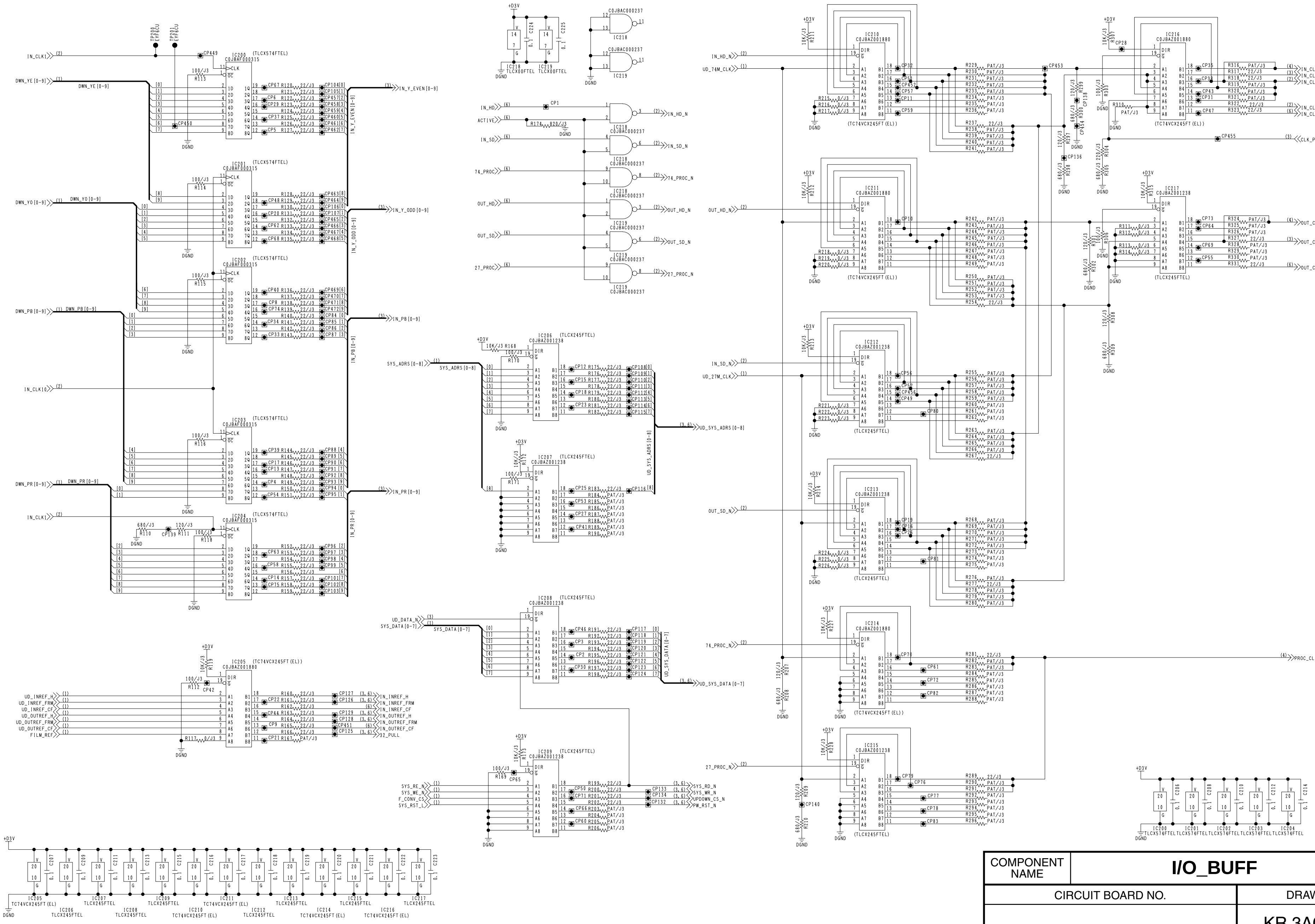
COMPONENT NAME	MECHA_IF(FG/PG)	6/7
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82250A	KR 2A0003-1(6/7)	
	SCM098	


CTL_REC_L
4:17E
REC_CTL
4:17C
+9V
-9V
+3V
IC703
C0JBAZ000994
1
2
3
4
5
6
8
9
10
11
12
13
14
7
V
G
C700
0.1/UFV
R700
1000/J3
R701
1000/J3
R702
1000/J3
R703
1000/J3
Q700
2SD601A-TX
Q701
2SB709A-TX
Q702
2SB709A-TX
Q703
2SD601A-TX
C701
0.1/UFV
C702
0.1/UFV
R704
470/RE7
R705
470/RE7
R706
1500/J3
TP700
QR700
UN5213-TX
QR701
UN5113-TX
D700
MA147-GTX
R707
56K/J3
R708
100K/J3
C703
16V22/EHB
EEVHB1C220R
C704
16V47/EHB
EEVHB1C470P
Q704
2SB709A-TX
12:12E
CTL_REC_CURR
QR702
UN5215-TX
QR703
UN5115-TX
Q705
2SD601A-TX
C705
16V22/EHB
EEVHB1C220R
C706
16V22/EHB
EEVHB1C220R
R709
100K/J3
R710
56K/J3
D701
MA147-GTX

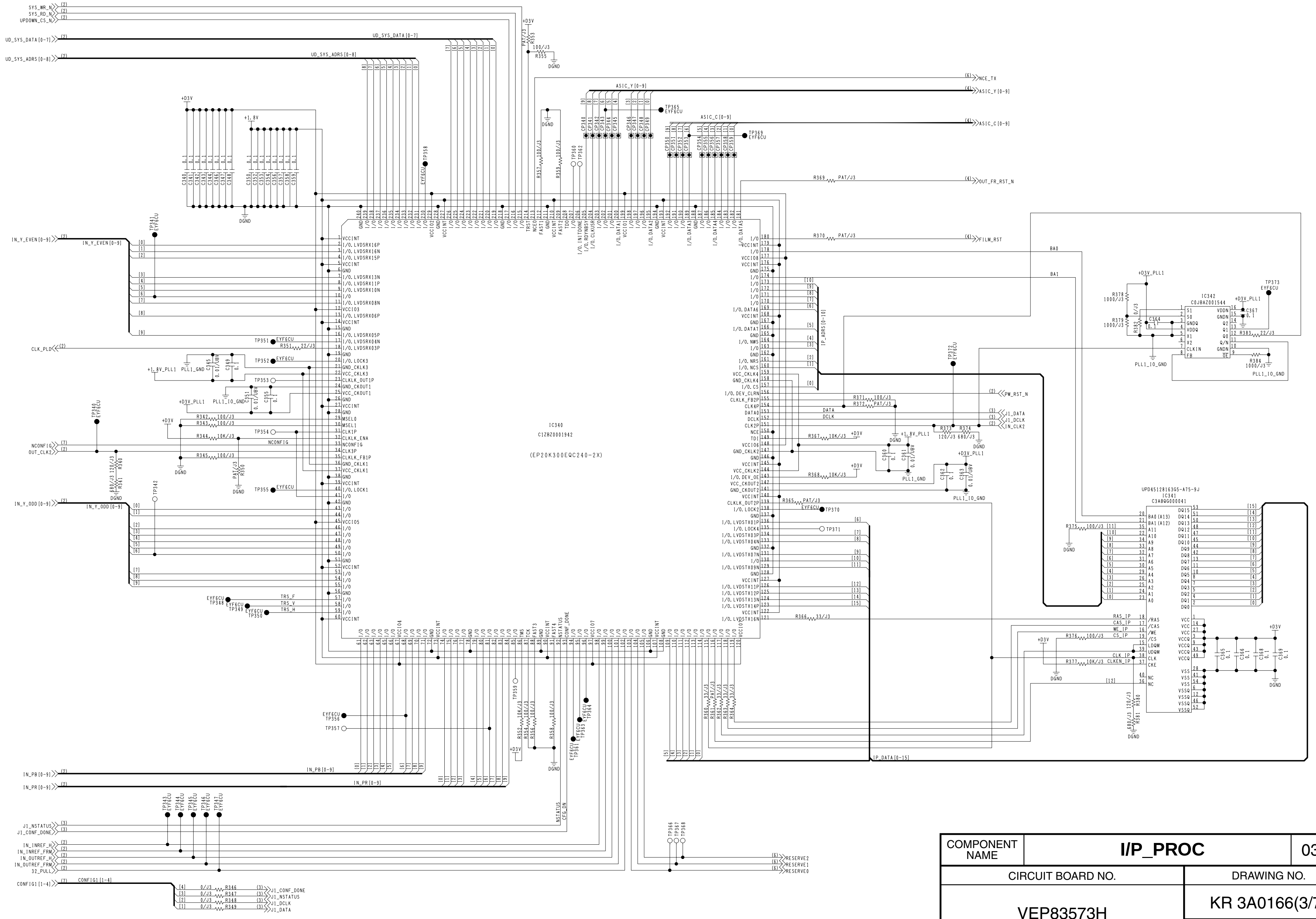
COMPONENT NAME	MECHA_IF(REC_CTL)	7/7
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82250A	KR 2A0003-1(7/7) **SCM099**	


SYS_DATA[0-7]
SYS_ADRS[0-8]
DWN_YO[0-9]
DWN_YE[0-9]
DWN_PB[0-9]
DWN_PR[0-9]
P100
K1KBG0A00006
F_CONV_CS
SYS_WE_N
SUB_PR[0-9]
SUB_YO[0-9]
SYS_RST_L
SYS_RE_N
SUB_PB[0-9]
SUB_YE[0-9]
SUB_UD_CLK
SUB_OUT_H
CONFIG1[4]
UD_74M_CLK
UD_27M_CLK
UD_OUTREF_H
UD_OUTREF_FRM
UD_OUTREF_CF
SUB_OUT_FRM
SUB_OUT_CF
UD_INREF_H
UD_INREF_FRM
UD_INREF_CF
FILM_REF
(VJP4064N160C)
DGND
DOUBLE REFLOW SIDE
TG100 EYF6CU
TG101 EYF6CU
TG102 EYF6CU
TG103 EYF6CU
TG104 EYF6CU
TG105 EYF6CU
REFLOW SIDE
TG106 PAT/EYF6CU
TG107 PAT/EYF6CU
IC100 (LT1963EST-1.8)
IC101 (XC62FP1802PR)
IC102 (XC62FP1802PR)
+1.8V
+1.8V_PLL1
+1.8V_PLL2
+D3V
+D3V2
+D3V_PLL1
+D3V_PLL2
L100 J0JHC0000016 (VLF1151A132T)
L101 J0JHC0000016 (VLF1151A132T)
L102 J0JGC0000017 (VLP0192)
L103 J0JGC0000017 (VLP0192)
L104 J0JGC0000017 (VLP0192)
L105 J0JGC0000017 (VLP0192)
L108 J0JGC0000017 (VLP0192)
PLL1_GND
PLL2_GND
PLL1_IO_GND
PLL2_IO_GND

COMPONENT NAME	**CONNECTOR**	01/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83573H	KR 3A0166(1/7) **SCM118**	


IN_CLK1
DWN_YE[0-9]
DWN_YO[0-9]
DWN_PB[0-9]
DWN_PR[0-9]
IN_CLK0
IC200 C0JBAF000315 (TLCX574FTEL)
IC201 C0JBAF000315 (TLCX574FTEL)
IC202 C0JBAF000315 (TLCX574FTEL)
IC203 C0JBAF000315 (TLCX574FTEL)
IC204 C0JBAF000315 (TLCX574FTEL)
IN_Y_EVEN[0-9]
IN_Y_ODD[0-9]
IN_PB[0-9]
IN_PR[0-9]
DGND
+D3V
IC205 C0JBAZ001880 (TC74VCX245FT(EL))
UD_INREF_H
UD_INREF_FRM
UD_INREF_CF
UD_OUTREF_H
UD_OUTREF_FRM
UD_OUTREF_CF
FILM_REF
IN_INREF_H
IN_INREF_FRM
IN_INREF_CF
IN_OUTREF_H
IN_OUTREF_FRM
IN_OUTREF_CF
32_PULL
IC218 TLCX00FTEL
IC219 TLCX00FTEL
C0JBAC000237
IN_HD
ACTIVE
IN_SD
74_PROC
OUT_HD
OUT_SD
27_PROC
IN_HD_N
IN_SD_N
74_PROC_N
OUT_HD_N
OUT_SD_N
27_PROC_N
IC206 C0JBAZ001238 (TLCX245FTEL)
IC207 C0JBAZ001238 (TLCX245FTEL)
SYS_ADRS[0-8]
UD_SYS_ADRS[0-8]
IC208 C0JBAZ001238 (TLCX245FTEL)
UD_DATA_N
SYS_DATA[0-7]
UD_SYS_DATA[0-7]
IC209 C0JBAZ001238 (TLCX245FTEL)
SYS_RE_N
SYS_WE_N
F_CONV_CS
SYS_RST_L
SYS_RD_N
SYS_WR_N
UPDOWN_CS_N
PW_RST_N
IC210 C0JBAZ001880 (TC74VCX245FT(EL))
IC211 C0JBAZ001880 (TC74VCX245FT(EL))
IC212 C0JBAZ001238 (TLCX245FTEL)
IC213 C0JBAZ001238 (TLCX245FTEL)
IC214 C0JBAZ001880 (TC74VCX245FT(EL))
IC215 C0JBAZ001238 (TLCX245FTEL)
IC216 C0JBAZ001880 (TC74VCX245FT(EL))
IC217 C0JBAZ001238 (TLCX245FTEL)
UD_74M_CLK
UD_27M_CLK
IN_CLK3
IN_CLK2
IN_CLK1
IN_CLK10
IN_CLK4
CLK_PLD
OUT_CLK3
OUT_CLK2
OUT_CLK4
PROC_CLK
PAT/J3
22/J3
0/J3
10K/J3
100/J3
680/J3
120/J3

COMPONENT NAME	I/O_BUFF	02/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83573H	KR 3A0166(2/7)	
	SCM119	


SYS_WR_N
SYS_RD_N
UPDOWN_CS_N
UD_SYS_DATA[0-7]
UD_SYS_ADRS[0-8]
+D3V
+1.8V
DGND
IN_Y_EVEN[0-9]
CLK_PLD
+1.8V_PLL1
PLL1_GND
+D3V_PLL1
PLL1_IO_GND
NCONFIG
OUT_CLK2
IN_Y_ODD[0-9]
IN_PB[0-9]
IN_PR[0-9]
J1_NSTATUS
J1_CONF_DONE
IN_INREF_H
IN_INREF_FRM
IN_OUTREF_H
IN_OUTREF_FRM
32_PULL
CONFIG1[1-4]
J1_CONF_DONE
J1_NSTATUS
J1_DCLK
J1_DATA
IC340
C1ZB20001942
(EP20K300EQC240-2X)
NCE_TX
ASIC_Y[0-9]
ASIC_C[0-9]
OUT_FR_RST_N
FILM_RST
BA0
BA1
IC342
C0JBAZ001544
+D3V_PLL1
PLL1_IO_GND
PW_RST_N
J1_DATA
J1_DCLK
IN_CLK2
IP_ADRS[0-10]
UPD4512816365-A75-9J
IC341
C3ABQG000041
RAS_IP
CAS_IP
WE_IP
CS_IP
CLK_IP
CLKEN_IP
IP_DATA[0-15]
RESERVE2
RESERVE1
RESERVE0
TRS_F
TRS_V
TRS_H
NSTATUS
CFG_DN
A
B
C
D
E
F
G
H
I
J
1
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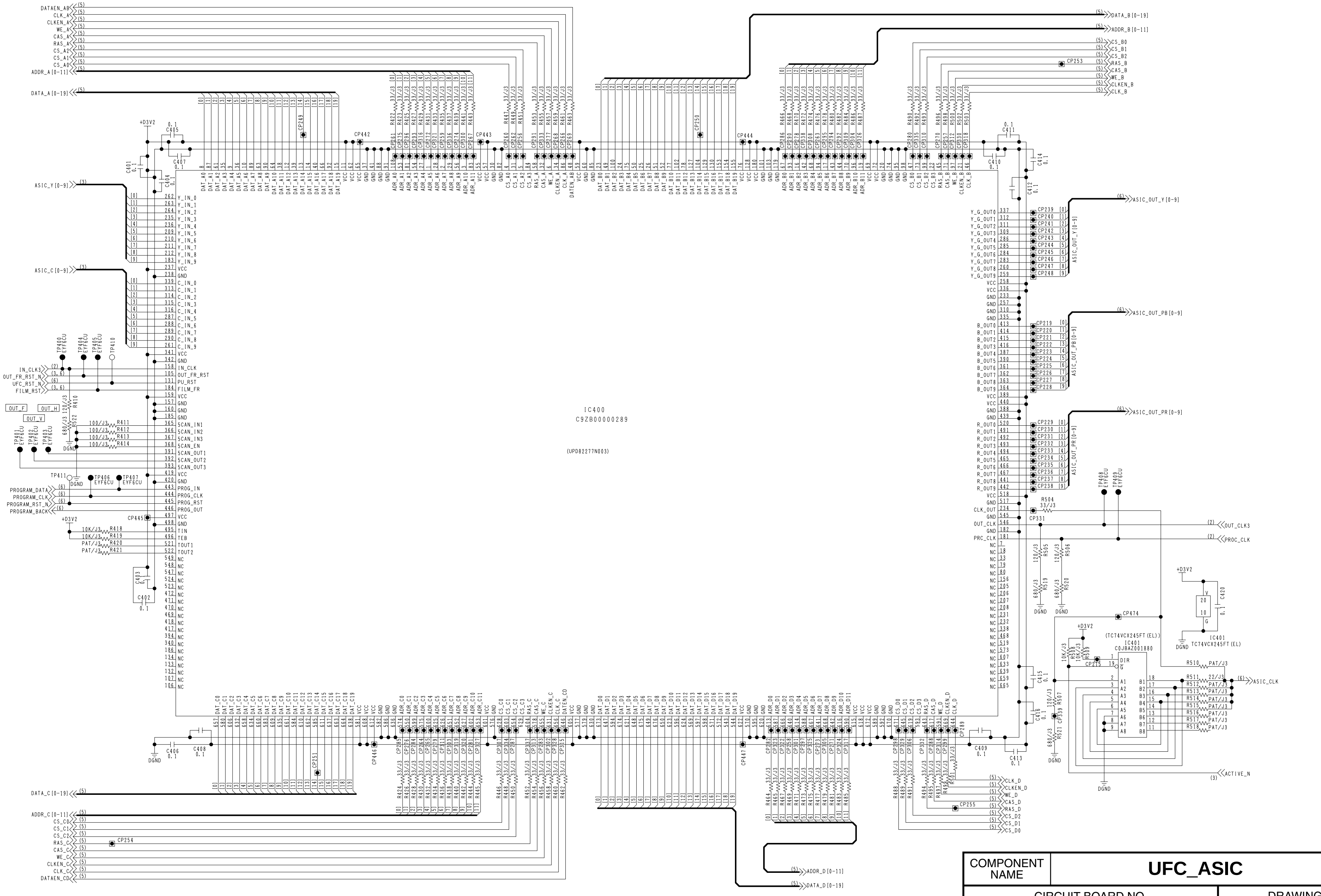
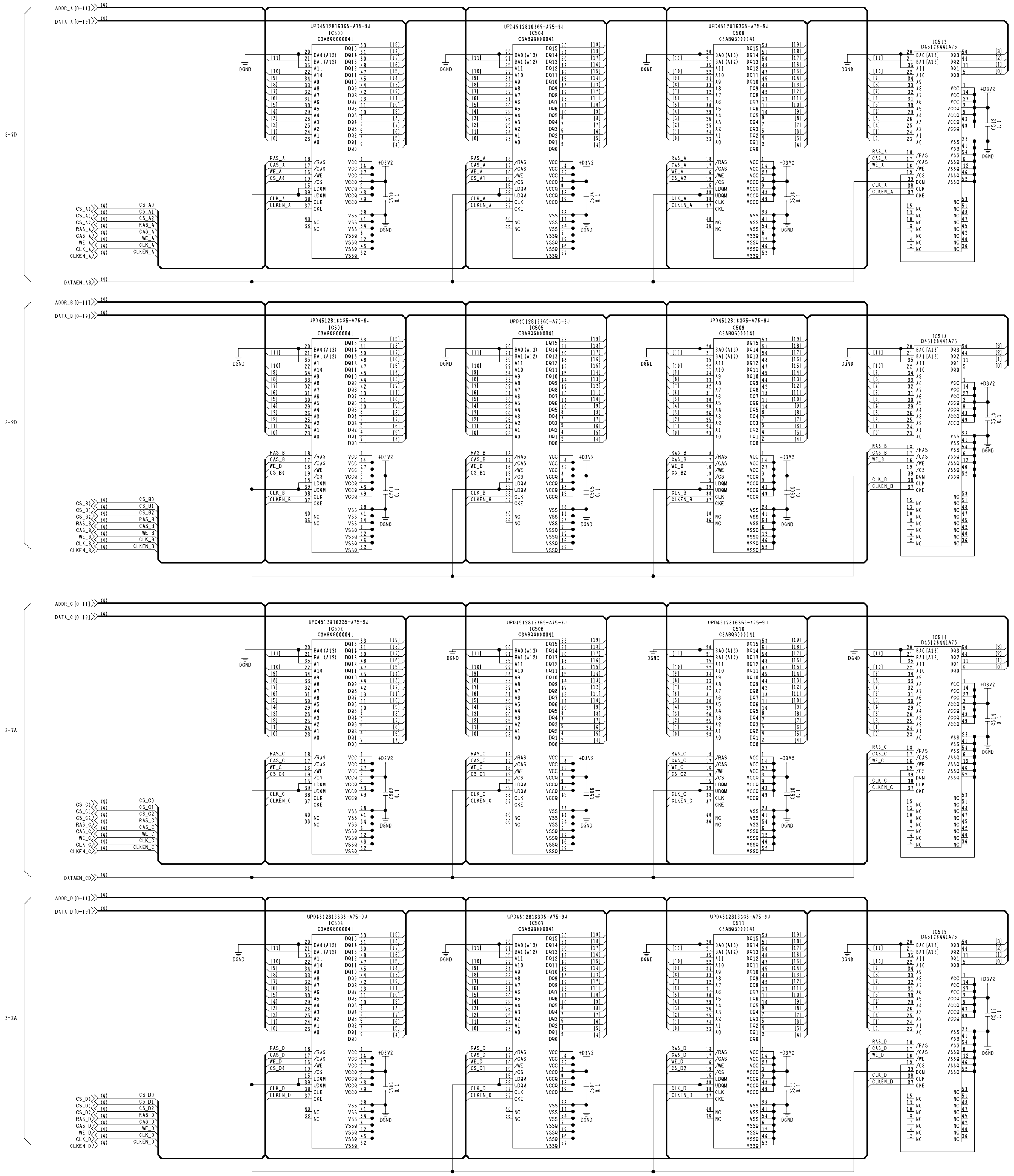
COMPONENT NAME	I/P_PROC	03/07

CIRCUIT BOARD NO.	DRAWING NO.
VEP83573H	KR 3A0166(3/7)
	SCM120


DATAEN_AB
CLK_A
CLKEN_A
WE_A
CAS_A
RAS_A
CS_A2
CS_A1
CS_A0
ADDR_A[0-11]
DATA_A[0-19]
DATA_B[0-19]
ADDR_B[0-11]
CS_B0
CS_B1
CS_B2
RAS_B
CAS_B
WE_B
CLKEN_B
CLK_B
ASIC_Y[0-9]
ASIC_C[0-9]
IN_CLK
OUT_FR_RST_N
UFC_RST_N
FILM_RST
OUT_F
OUT_H
OUT_V
PROGRAM_DATA
PROGRAM_CLK
PROGRAM_RST_N
PROGRAM_BACK
ASIC_OUT_Y[0-9]
ASIC_OUT_PB[0-9]
ASIC_OUT_PR[0-9]
OUT_CLK3
PROC_CLK
ASIC_CLK
ACTIVE_N
IC400
C9ZB00000289
(UPD82277N003)
IC401
C0JBAZ001880
TC74VCX245FT(EL)
+D3V2
DGND
DATA_C[0-19]
ADDR_C[0-11]
CS_C0
CS_C1
CS_C2
RAS_C
CAS_C
WE_C
CLKEN_C
CLK_C
DATAEN_CD
CLK_D
CLKEN_D
WE_D
CAS_D
RAS_D
CS_D2
CS_D1
CS_D0
ADDR_D[0-11]
DATA_D[0-19]

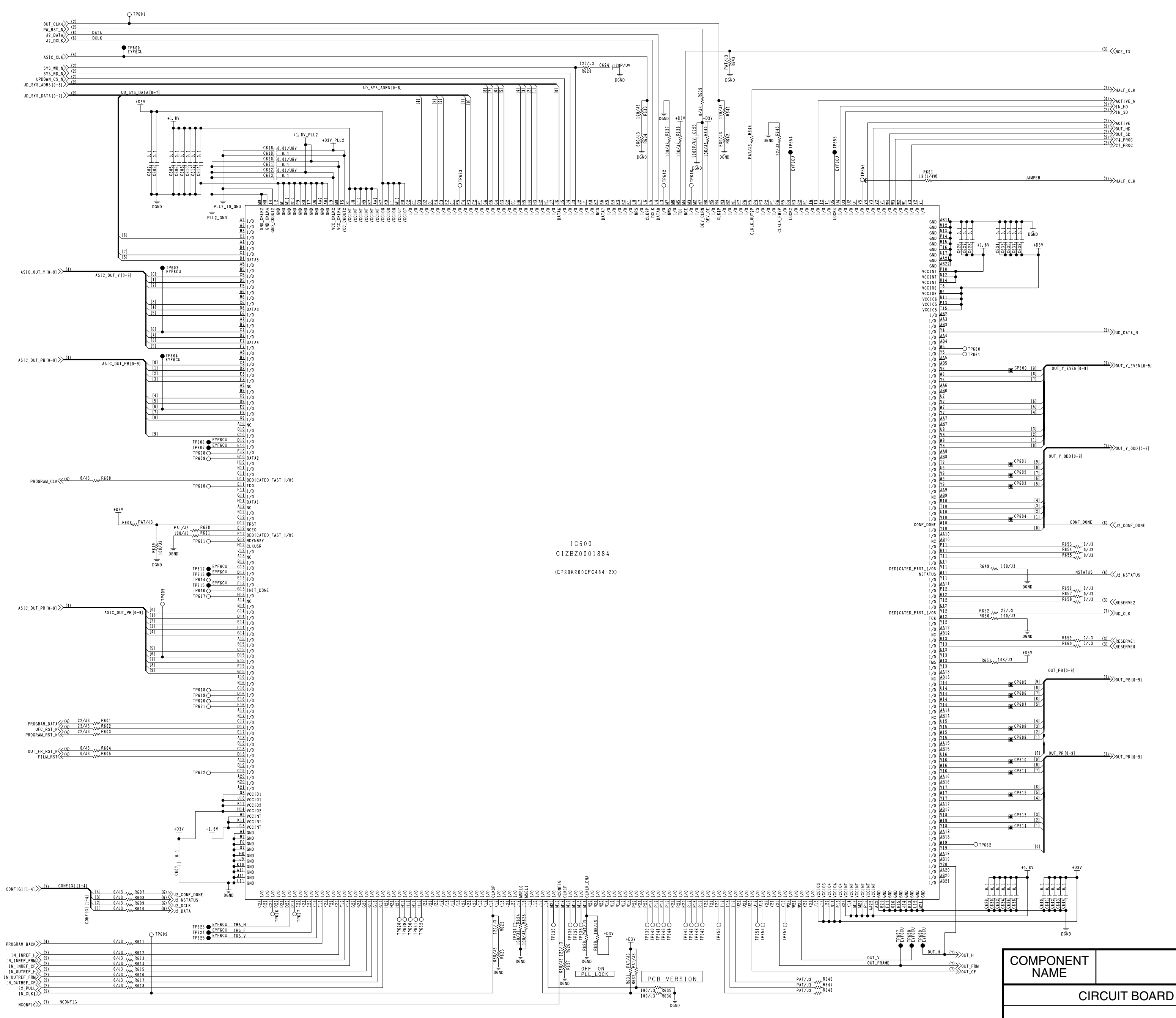
COMPONENT NAME	UFC_ASIC	04/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83573H	KR 3A0166(4/7)	
	SCM121	


ADDR_A[0-11]
DATA_A[0-19]
3-7D
CS_A0
CS_A1
CS_A2
RAS_A
CAS_A
WE_A
CLK_A
CLKEN_A
DATAEN_AB
UPD45128163G5-A75-9J
IC500
IC504
IC508
C3ABQG000041
IC512
D45128441A75
C500
C504
C508
C512
0.1
+D3V2
DGND
ADDR_B[0-11]
DATA_B[0-19]
3-2D
CS_B0
CS_B1
CS_B2
RAS_B
CAS_B
WE_B
CLK_B
CLKEN_B
IC501
IC505
IC509
IC513
C501
C505
C509
C513
ADDR_C[0-11]
DATA_C[0-19]
3-7A
CS_C0
CS_C1
CS_C2
RAS_C
CAS_C
WE_C
CLK_C
CLKEN_C
DATAEN_CD
IC502
IC506
IC510
IC514
C502
C506
C510
C514
ADDR_D[0-11]
DATA_D[0-19]
3-2A
CS_D0
CS_D1
CS_D2
RAS_D
CAS_D
WE_D
CLK_D
CLKEN_D
IC503
IC507
IC511
IC515
C503
C507
C511
C515

COMPONENT NAME	SDRAM	05/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83573H	KR 3A0166(5/7)	
	SCM122	

A
B
C
D
E
F
G
H
I
J

1 2 3 4 5 6 7 8 9 10 11 12 13 14


IC600
C1ZBZ0001884
(EP20K200EFC484-2X)
OUT_CLK4
PW_RST_N
J2_DATA
J2_DCLK
ASIC_CLK
SYS_WR_N
SYS_RD_N
UPDOWN_CS_N
UD_SYS_ADRS[0-8]
UD_SYS_DATA[0-7]
ASIC_OUT_Y[0-9]
ASIC_OUT_PB[0-9]
ASIC_OUT_PR[0-9]
PROGRAM_CLK
PROGRAM_DATA
UFC_RST_N
PROGRAM_RST_N
OUT_FR_RST_N
FILM_RST
CONFIG[1-4]
PROGRAM_BACK
IN_INREF_H
IN_INREF_FRM
IN_INREF_CF
IN_OUTREF_H
IN_OUTREF_FRM
IN_OUTREF_CF
32_PULL
IN_CLK4
NCONFIG
NCE_TX
HALF_CLK
ACTIVE_N
IN_HD
IN_SD
ACTIVE
OUT_HD
OUT_SD
74_PROC
27_PROC
JAMPER
UD_DATA_N
OUT_Y_EVEN[0-9]
OUT_Y_ODD[0-9]
J2_CONF_DONE
J2_NSTATUS
RESERVE2
UD_CLK
RESERVE1
RESERVE0
OUT_PB[0-9]
OUT_PR[0-9]
OUT_H
OUT_FRM
OUT_CF
J2_CONF_DONE
J2_NSTATUS
J2_DCLK
J2_DATA
PLL_LOCK
PCB VERSION
DGND
+D3V
+1.8V
A
B
C
D
E
F
G
H
I
J
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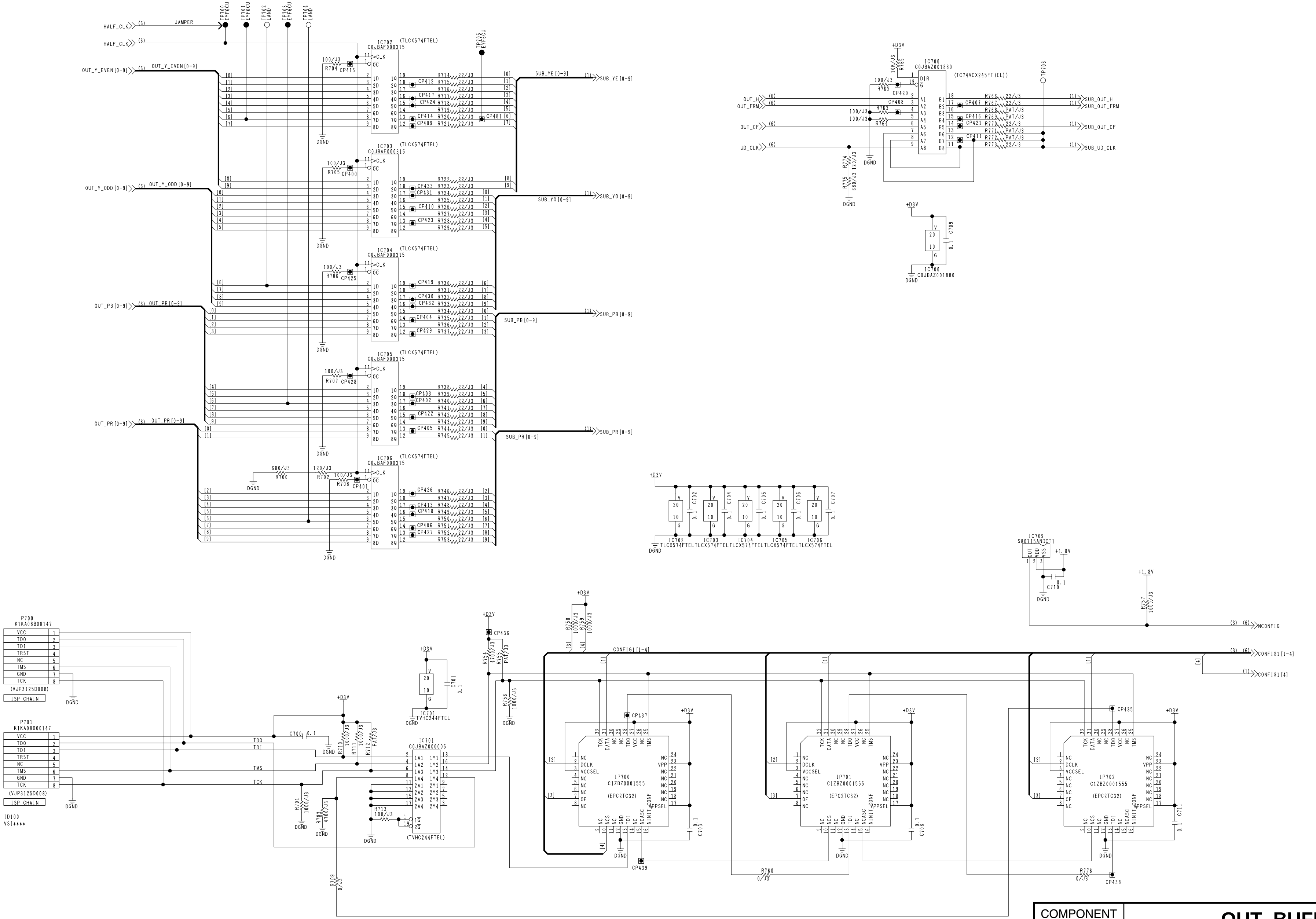
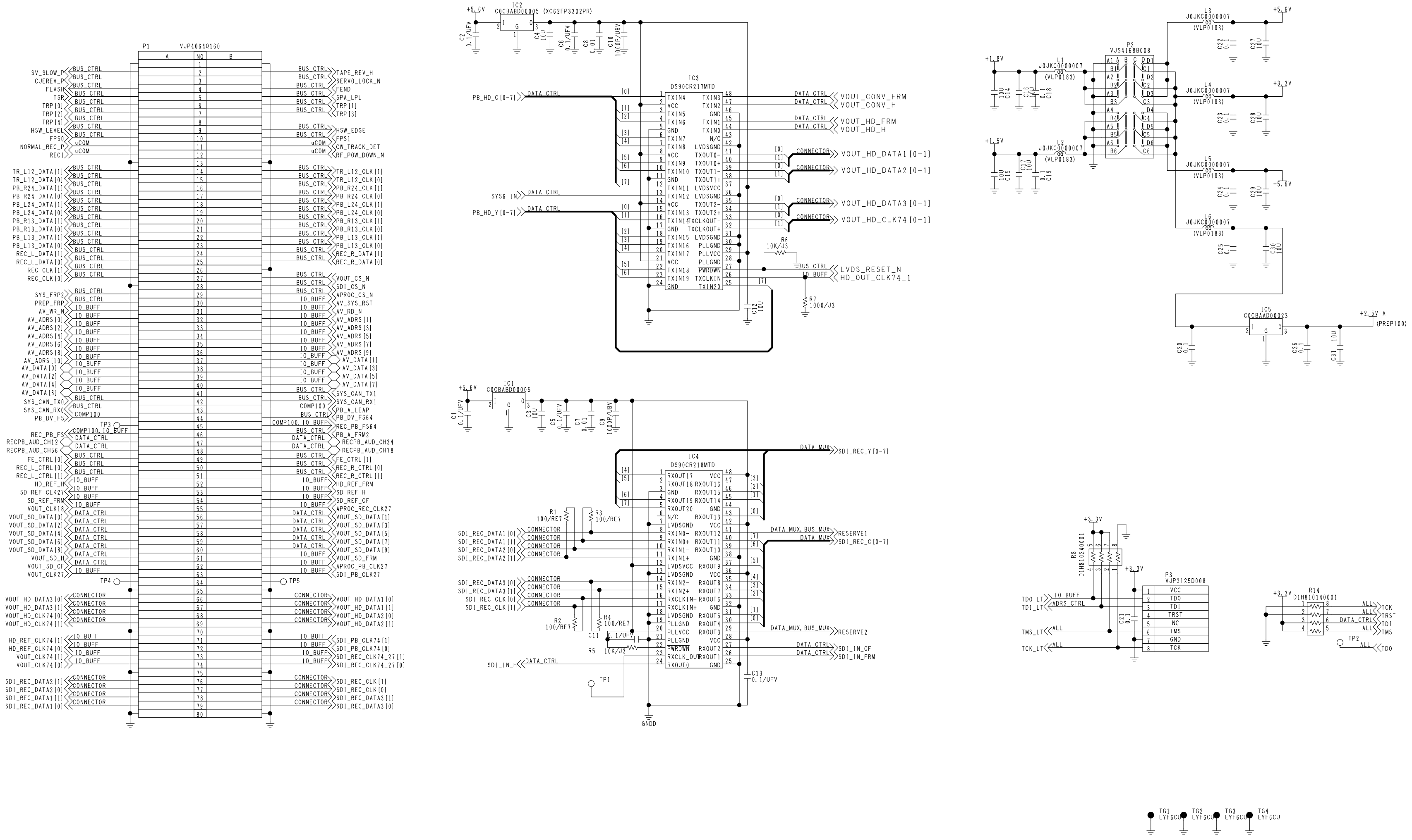
COMPONENT NAME	OUT_PROC	06/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83573H	KR 3A0166(6/7) SCM123	


HALF_CLK
OUT_Y_EVEN[0-9]
OUT_Y_ODD[0-9]
OUT_PB[0-9]
OUT_PR[0-9]
JAMPER
TP700 EYF6CU
TP701 EYF6CU
TP702 LAND
TP703 EYF6CU
TP704 LAND
TP705 EYF6CU
TP706
IC702 (TLCX574FTEL) C0JBAF000315
IC703 (TLCX574FTEL) C0JBAF000315
IC704 (TLCX574FTEL) C0JBAF000315
IC705 (TLCX574FTEL) C0JBAF000315
IC706 (TLCX574FTEL) C0JBAF000315
SUB_YE[0-9]
SUB_YO[0-9]
SUB_PB[0-9]
SUB_PR[0-9]
DGND
+D3V
IC700 C0JBAZ001880 (TC74VCX245FT(EL))
OUT_H
OUT_FRM
OUT_CF
UD_CLK
SUB_OUT_H
SUB_OUT_FRM
SUB_OUT_CF
SUB_UD_CLK
C709 0.1
C702 C703 C704 C705 C706 C707
IC709 S80715ANDCT1
+1.8V
C710 0.1
R757 1000/J3
NCONFIG
CONFIG1[1-4]
CONFIG1[4]
P700 K1KA08B00147
P701 K1KA08B00147
VCC TDO TDI TRST NC TMS GND TCK
(VJP3125D008)
ISP_CHAIN
ID100
VSI****
IC701 C0JBAZ000005 (TVHC244FTEL)
C700 0.1
C701 0.1
TDO TDI TMS TCK
CP436 CP437 CP435 CP439 CP438
IP700 C1ZBZ0001555 (EPC2TC32)
IP701 C1ZBZ0001555 (EPC2TC32)
IP702 C1ZBZ0001555 (EPC2TC32)
R760 0/J3
R776 0/J3
R709 0/J3
C703 0.1
C708 0.1
C711 0.1

COMPONENT NAME	**OUT_BUFF**	07/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83573H	KR 3A0166(7/7)	
	SCM124	


P1 VJP4064Q160
IC2 C0CBABD00005 (XC62FP3302PR)
IC3 DS90CR217MTD
IC1 C0CBABD00005
IC4 DS90CR218MTD
P2 VJS4168B008
IC5 C0CBAAD00023
P3 VJP3125D008
R14 D1H810140001
R8 D1H810240001
L1 J0JKC0000007 (VLP0183)
L2 J0JKC0000007 (VLP0183)
L3 J0JKC0000007 (VLP0183)
L4 J0JKC0000007 (VLP0183)
L5 J0JKC0000007 (VLP0183)
L6 J0JKC0000007 (VLP0183)
+5.5V
+3.3V
+1.8V
+1.5V
-5.6V
+2.5V_A (PREP100)
PB_HD_C[0-7]
PB_HD_Y[0-7]
SYS6_IN
VOUT_CONV_FRM
VOUT_CONV_H
VOUT_HD_FRM
VOUT_HD_H
VOUT_HD_DATA1[0-1]
VOUT_HD_DATA2[0-1]
VOUT_HD_DATA3[0-1]
VOUT_HD_CLK74[0-1]
LVDS_RESET_N
HD_OUT_CLK74_1
SDI_REC_Y[0-7]
RESERVE1
SDI_REC_C[0-7]
RESERVE2
SDI_IN_CF
SDI_IN_FRM
SDI_IN_H
GNDD
TP1
TP2
TP3
TP4
TP5
TG1 EYF6CU
TG2 EYF6CU
TG3 EYF6CU
TG4 EYF6CU
TCK
TRST
TDI
TMS
TDO
A
B
C
D
E
F
G
H
I
J
1
2
3
4
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6
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8
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12
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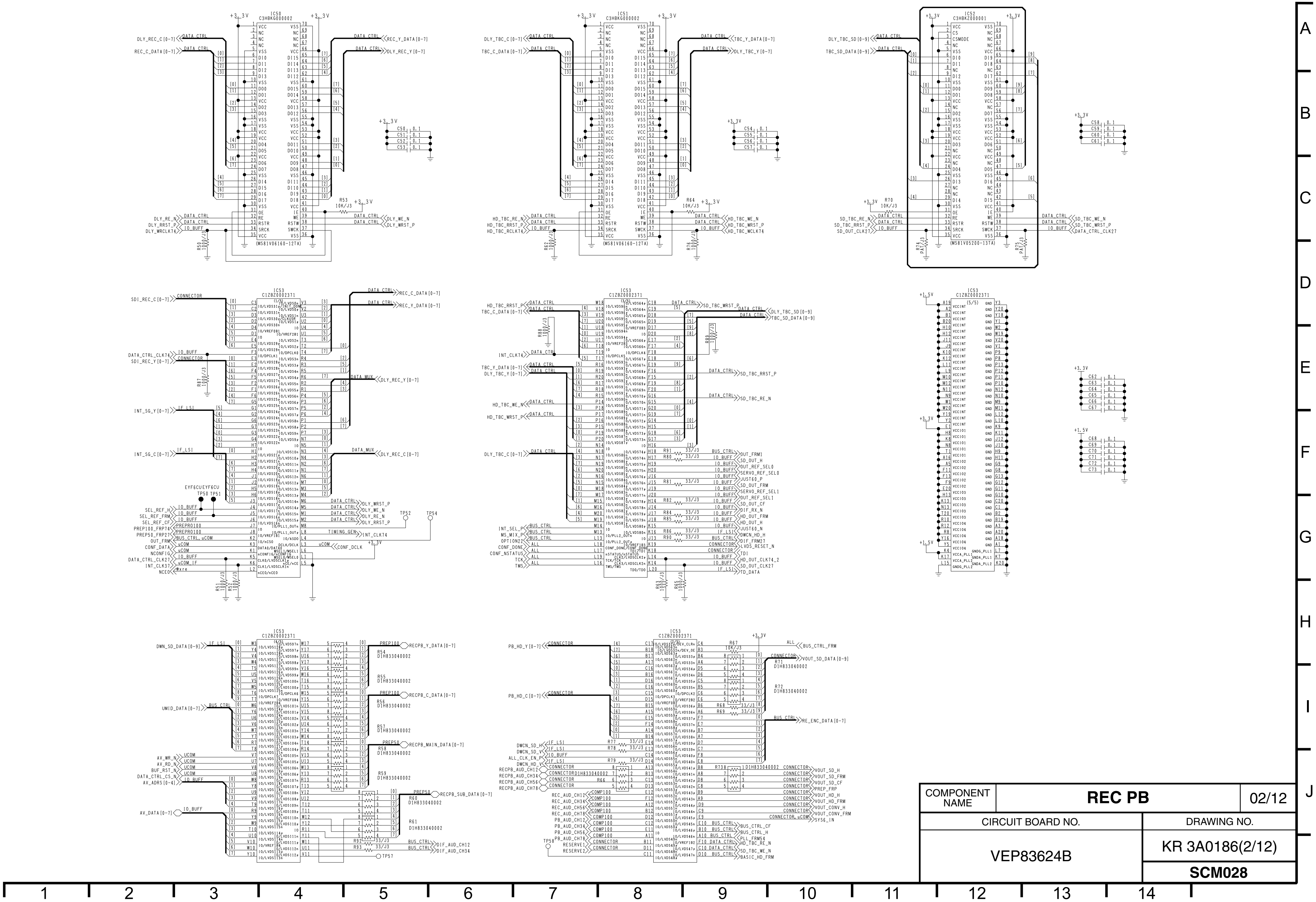
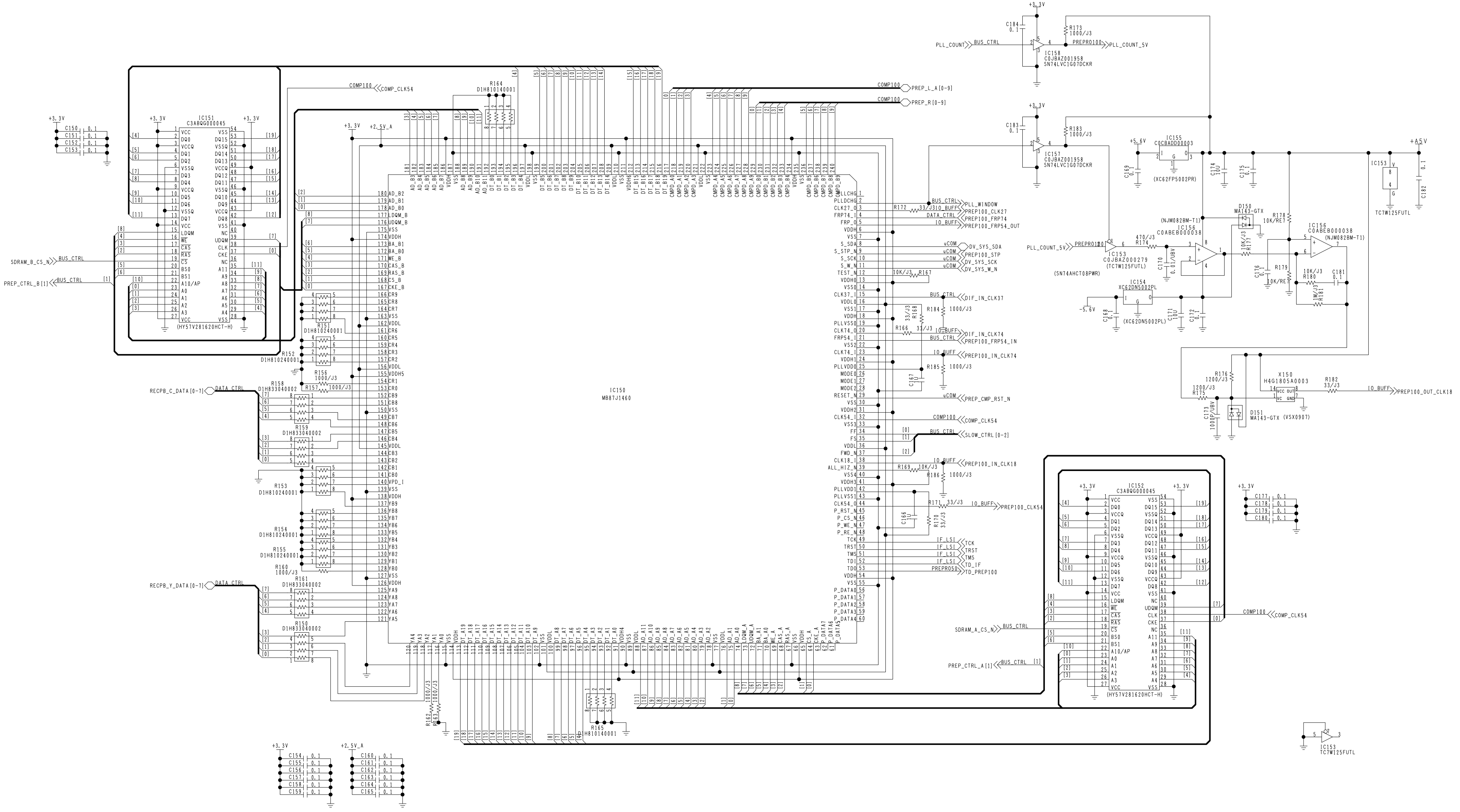
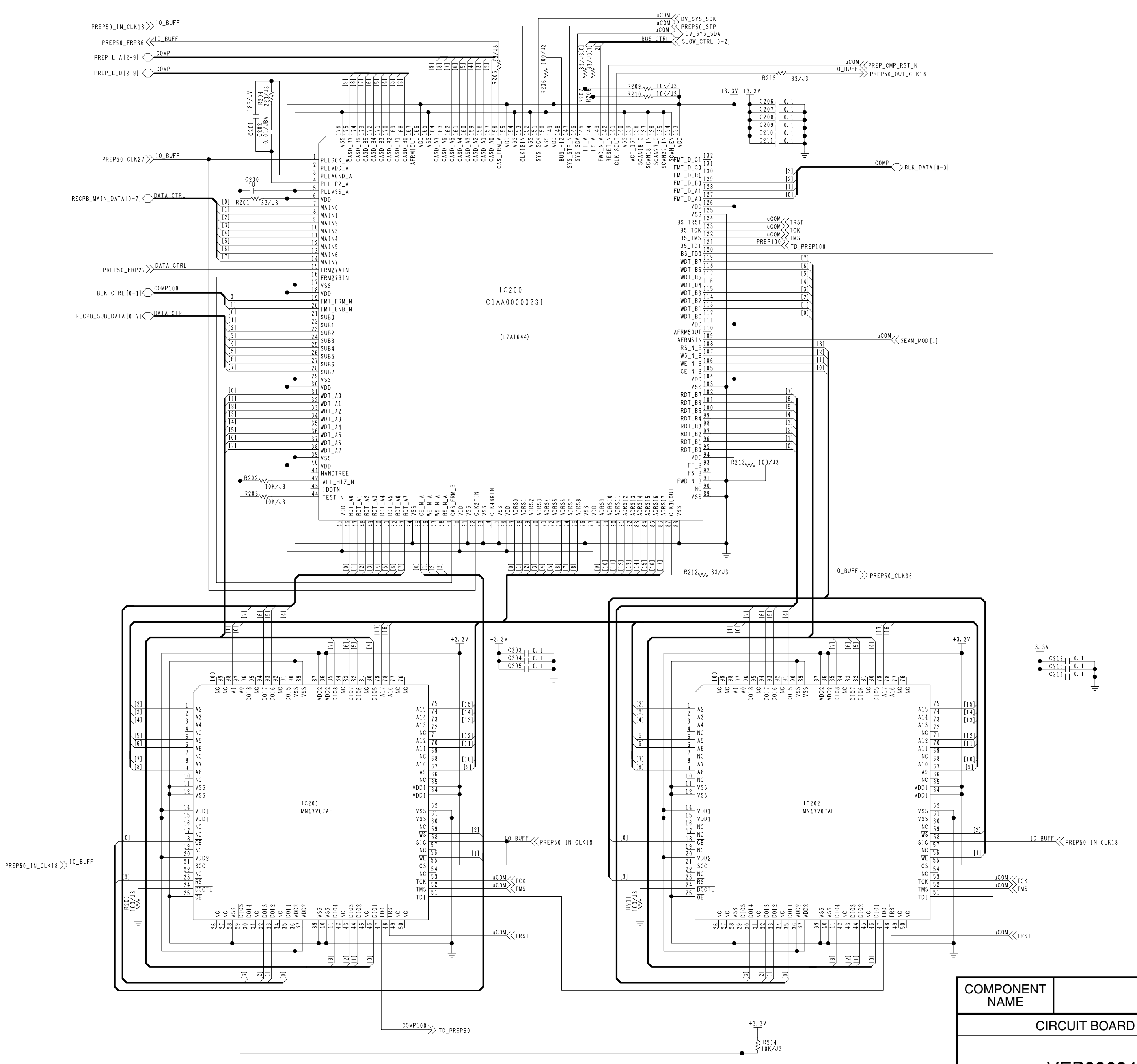
COMPONENT NAME	REC PB	01/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(1/12)	
	SCM027	


IC50
C3HBKG000002
(MS81V06160-12TA)
IC51
C3HBKG000002
(MS81V06160-12TA)
IC52
C3HBKZ000001
(MS81V05200-13TA)
IC53
C1ZBZ0002371
+3.3V
+1.5V
DATA_CTRL
DLY_REC_C[0-7]
REC_C_DATA[0-7]
REC_Y_DATA[0-7]
DLY_REC_Y[0-7]
DLY_RE_N
DLY_RST_P
DLY_WRCLK74
DLY_WE_N
DLY_WRST_P
DLY_TBC_C[0-7]
TBC_C_DATA[0-7]
TBC_Y_DATA[0-7]
DLY_TBC_Y[0-7]
HD_TBC_RE_N
HD_TBC_RRST_P
HD_TBC_RCLK74
HD_TBC_WE_N
HD_TBC_WRST_P
HD_TBC_WCLK74
DLY_TBC_SD[0-9]
TBC_SD_DATA[0-9]
SD_TBC_RE_N
SD_TBC_RRST_P
SD_OUT_CLK27
SD_TBC_WE_N
SD_TBC_WRST_P
DATA_CTRL_CLK27
SDI_REC_C[0-7]
SDI_REC_Y[0-7]
INT_SG_Y[0-7]
INT_SG_C[0-7]
DATA_MUX
TP50
TP51
TP52
TP54
TP57
TP58
DWN_SD_DATA[0-9]
UMID_DATA[0-7]
AV_DATA[0-7]
RECPB_Y_DATA[0-7]
RECPB_C_DATA[0-7]
RECPB_MAIN_DATA[0-7]
RECPB_SUB_DATA[0-7]
DIF_AUD_CH12
DIF_AUD_CH34
PB_HD_Y[0-7]
PB_HD_C[0-7]
VOUT_SD_DATA[0-9]
RE_ENC_DATA[0-7]
BUS_CTRL_FRM
SYSG_IN
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14

COMPONENT NAME	REC PB	02/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(2/12)	
	SCM028	


IC150
MB87J1460
IC151
C3ABQG000045
(HY57V281620HCT-H)
IC152
C3ABQG000045
(HY57V281620HCT-H)
IC153
C0JBAZ000279
(TC7W125FUTL)
IC154
XC62DN5002PL
IC155
C0CBADD00003
(XC62FP5002PR)
IC156
C0ABEB000038
(NJM082BM-T1)
IC157
C0JBAZ001958
SN74LVC1G07DCKR
IC158
C0JBAZ001958
SN74LVC1G07DCKR
X150
H4G1805A0003
D150
MA143-GTX
D151
MA143-GTX
PLL_COUNT
PLL_COUNT_5V
PREP_L_A[0-9]
PREP_R[0-9]
COMP_CLK54
SDRAM_B_CS_N
PREP_CTRL_B[1]
RECPB_C_DATA[0-7]
RECPB_Y_DATA[0-7]
PLL_WINDOW
PREP100_CLK27
PREP100_FRP74
PREP100_FRP54_OUT
DV_SYS_SDA
PREP100_STP
DV_SYS_SCK
DV_SYS_W_N
DIF_IN_CLK37
DIF_IN_CLK74
PREP100_FRP54_IN
PREP100_IN_CLK74
PREP_CMP_RST_N
COMP_CLK54
SLOW_CTRL[0-2]
PREP100_IN_CLK18
PREP100_CLK54
TCK
TRST
TMS
TD_IF
TD_PREP100
PREP100_OUT_CLK18
SDRAM_A_CS_N
PREP_CTRL_A[1]
+3.3V
+2.5V_A
+5.6V
-5.6V
+A5V

COMPONENT NAME	REC PB	03/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(3/12)	
	SCM029	


IC200
C1AA00000231
(LTA1644)
IC201
MN47V07AF
IC202
MN47V07AF
PREP50_IN_CLK18
PREP50_FRP36
PREP_L_A[2-9]
PREP_L_B[2-9]
PREP50_CLK27
RECPB_MAIN_DATA[0-7]
PREP50_FRP27
BLK_CTRL[0-1]
RECPB_SUB_DATA[0-7]
DV_SYS_SCK
PREP50_STP
DV_SYS_SDA
SLOW_CTRL[0-2]
PREP_CMP_RST_N
PREP50_OUT_CLK18
BLK_DATA[0-3]
TRST
TCK
TMS
TD_PREP100
SEAM_MOD[1]
PREP50_CLK36
COMP100
TD_PREP50
IO_BUFF
COMP
DATA_CTRL
uCOM
BUS_CTRL
PREP100
+3.3V
R200 100/J3
R201 33/J3
R202 10K/J3
R203 10K/J3
R204 330/J3
R205 33/J3
R206 100/J3
R207 33/J3
R208 33/J3
R209 10K/J3
R210 10K/J3
R211 100/J3
R212 33/J3
R213 100/J3
R214 10K/J3
R215 33/J3
C200 1U
C201 18P/UV
C202 0.01/UBV
C203 0.1
C204 0.1
C205 0.1
C206 0.1
C207 0.1
C208 0.1
C209 0.1
C210 0.1
C211 0.1
C212 0.1
C213 0.1
C214 0.1
A
B
C
D
E
F
G
H
I
J
1
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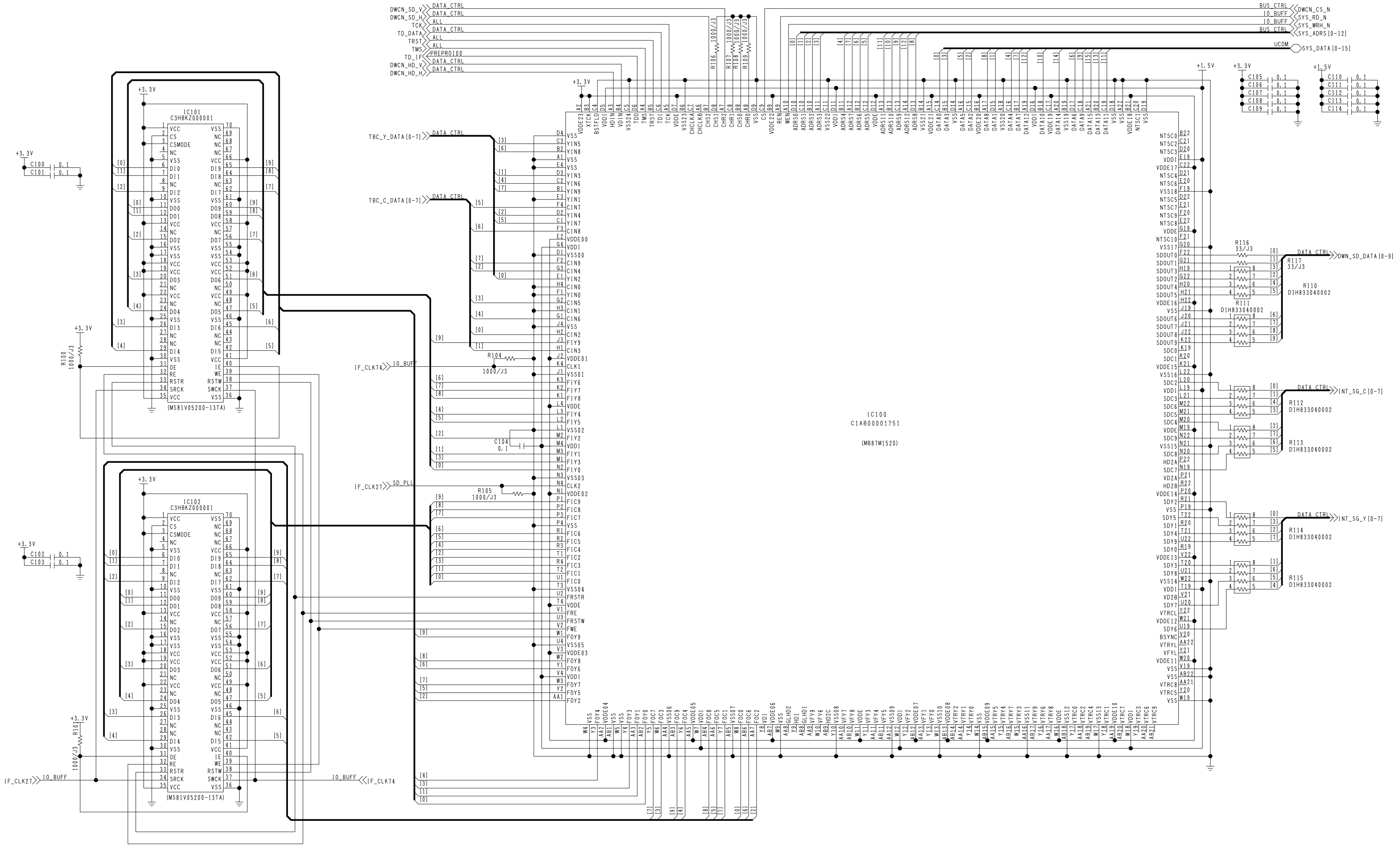
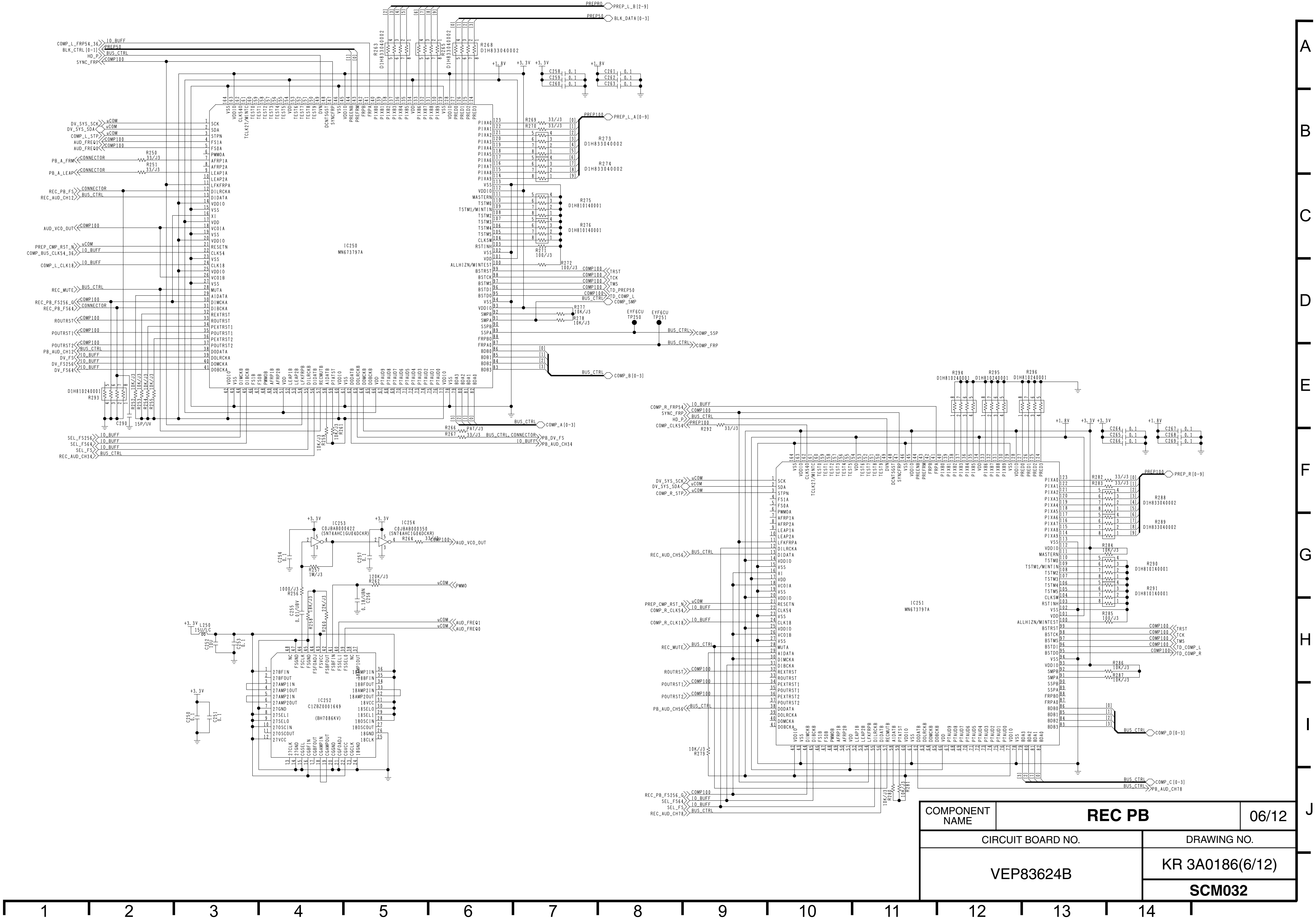
COMPONENT NAME	**REC PB**	04/12
CIRCUIT BOARD NO.		DRAWING NO.
VEP83624B		KR 3A0186(4/12) **SCM030**


IC100
C1AB00001751
(MB87M1520)
IC101
C3HBKZ000001
(MS81V05200-13TA)
IC102
C3HBKZ000001
(MS81V05200-13TA)
DWCN_SD_V
DWCN_SD_H
TCK
TD_DATA
TRST
TMS
TD_IF
DWCN_HD_V
DWCN_HD_H
DATA_CTRL
ALL
PREPRO100
DWCN_CS_N
SYS_RD_N
SYS_WRH_N
SYS_ADRS[0-12]
SYS_DATA[0-15]
BUS_CTRL
IO_BUFF
UCOM
TBC_Y_DATA[0-7]
TBC_C_DATA[0-7]
IF_CLK74
IF_CLK27
SD_PLL
DWN_SD_DATA[0-9]
INT_SG_C[0-7]
INT_SG_Y[0-7]
R104 1000/J3
R105 1000/J3
R106 1000/J3
R107 1000/J3
R108 1000/J3
R109 1000/J3
R100 1000/J3
R101 1000/J3
R116 33/J3
R117 33/J3
R110 D1H833040002
R111 D1H833040002
R112 D1H833040002
R113 D1H833040002
R114 D1H833040002
R115 D1H833040002
C104 0.1
+3.3V
+1.5V

COMPONENT NAME	REC PB	05/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(5/12)	
	SCM031	


IC250
MN673797A
IC251
MN673797A
IC252
C1ZBZ0001649
(BH7086KV)
IC253
C0JBAB000422
(SN74AHC1GU04DCKR)
IC254
C0JBAB000350
(SN74AHC1G04DCKR)
PREP_L_B[2-9]
BLK_DATA[0-3]
PREP_L_A[0-9]
PREP_R[0-9]
COMP_A[0-3]
COMP_B[0-3]
COMP_C[0-3]
COMP_D[0-3]
COMP_SSP
COMP_FRP
PB_DV_FS
PB_AUD_CH34
PB_AUD_CH78
AUD_VCO_OUT
PWM0
AUD_FREQ1
AUD_FREQ0
TRST
TCK
TMS
TD_PREP50
TD_COMP_L
TD_COMP_R
COMP_SMP
TP250
TP251
+1.8V
+3.3V
A
B
C
D
E
F
G
H
I
J
1
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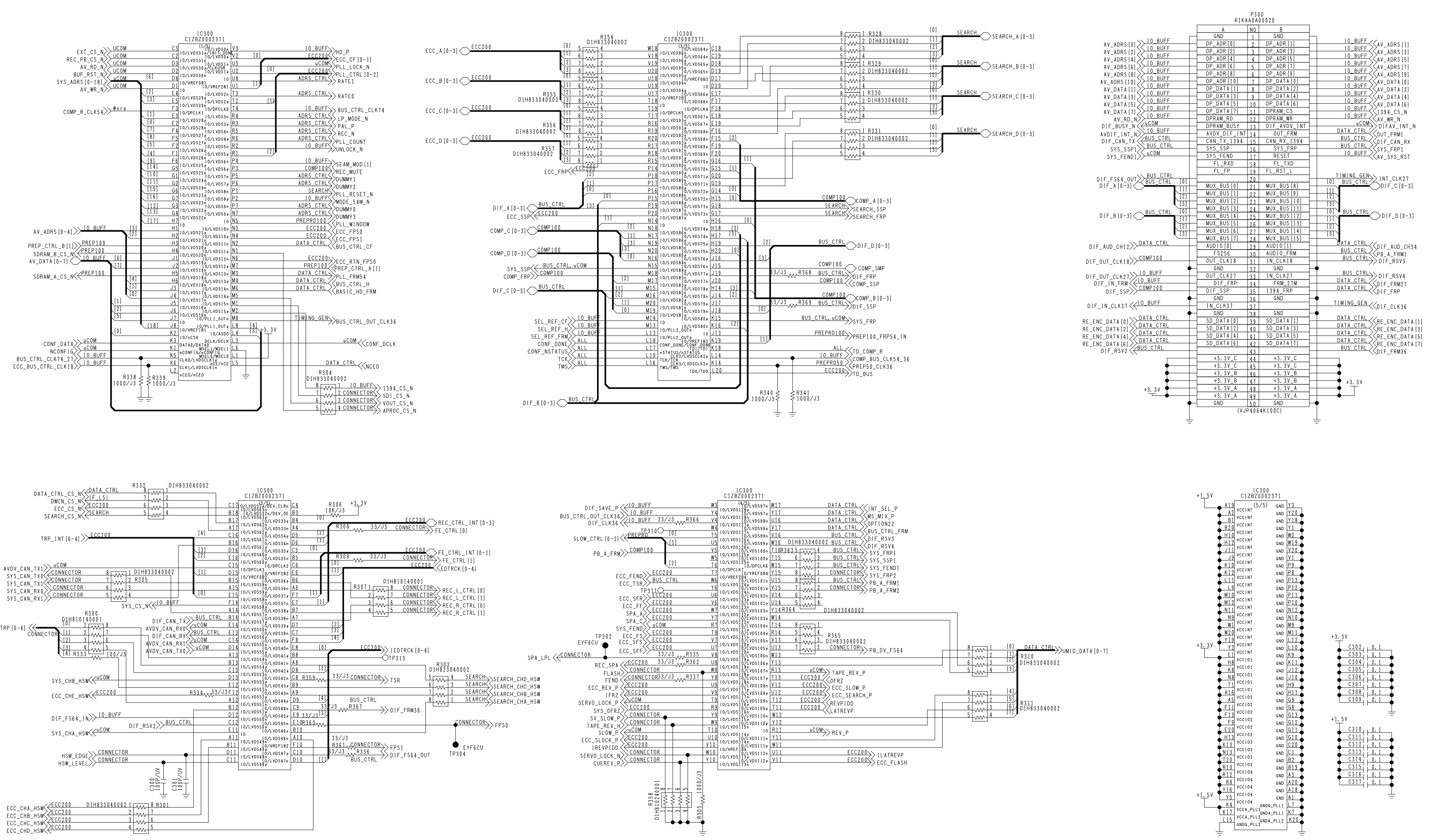
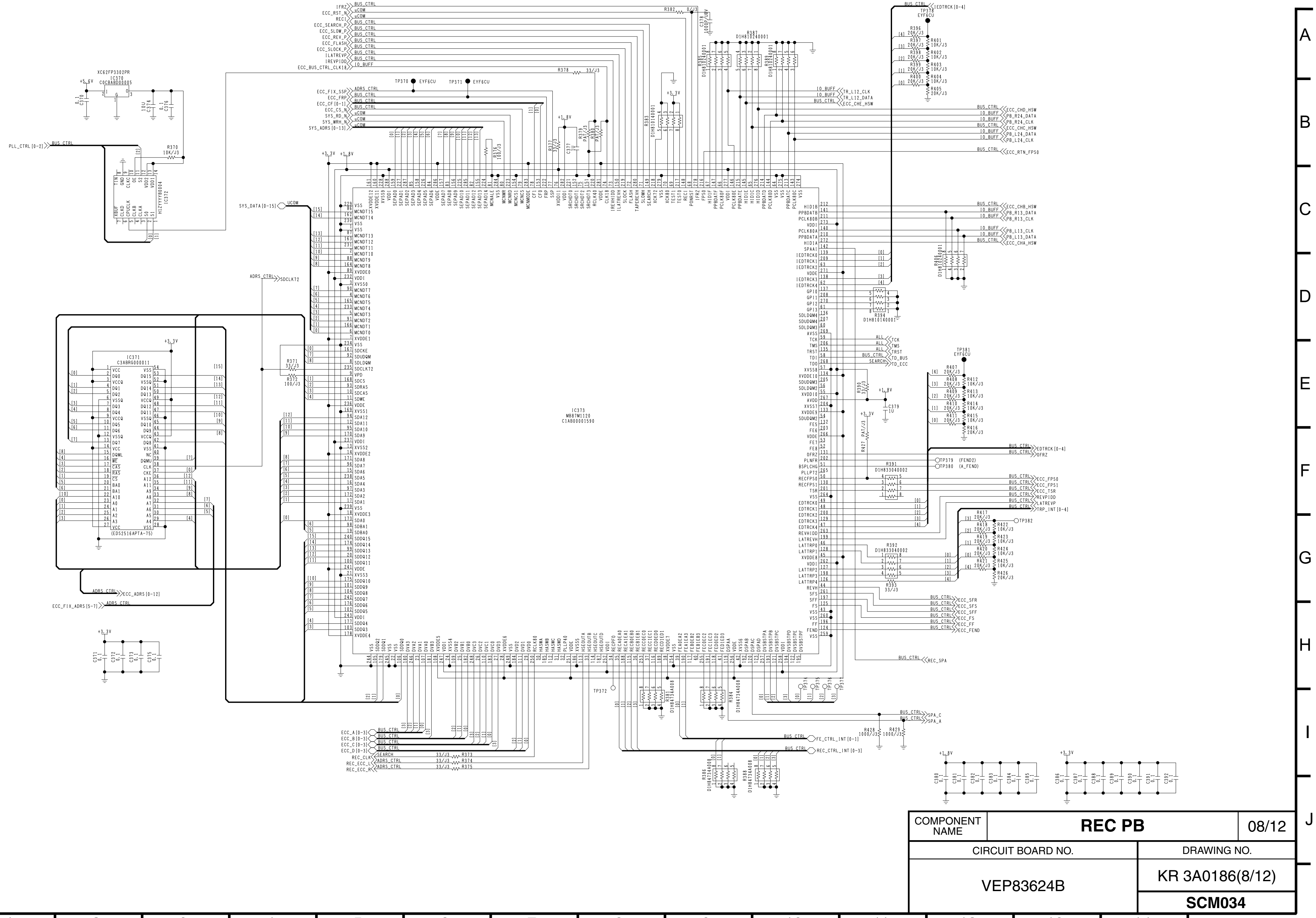
COMPONENT NAME	REC PB	06/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(6/12) SCM032	


IC300
C1ZBZ0002371
P300
K1KAA0A00020
(VJP4064K100C)
R354
D1H833040002
R355
R356
R357
R328
R329
R330
R331
R304
R338
R339
R340
R341
R332
R305
R300
D1H810140001
R301
R302
R306
R307
R308
R309
R310
R311
R358
D1H810240001
R363
R364
R365
TP302
TP304
TP310
TP311
TP313
EYF6CU
SEARCH_A[0-3]
SEARCH_B[0-3]
SEARCH_C[0-3]
SEARCH_D[0-3]
ECC_A[0-3]
ECC_B[0-3]
ECC_C[0-3]
ECC_D[0-3]
+3.3V
+1.5V
C302–C309 0.1
C310–C317 0.1

COMPONENT NAME	REC PB	07/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(7/12)	
	SCM033	


IC373
MB87M1120
C1AB00001590
IC371
C3ABRG000011
EDS2516APTA-75
IC370
XC62FP3302PR
C0CBABD00005
IC372
HLZYVYYB0004
SYS_DATA [0-15]
PLL_CTRL [0-2]
ECC_ADRS [0-12]
ECC_FIX_ADRS [5-7]
ECC_A [0-3]
ECC_B [0-3]
ECC_C [0-3]
ECC_D [0-3]
REC_CLK
REC_ECC_L
REC_ECC_R
IEDTRCK [0-4]
EDTRCK [0-4]
TRP_INT [0-4]
FE_CTRL_INT [0-1]
REC_CTRL_INT [0-3]
REC_SPA
SPA_C
SPA_A
TP370
TP371
TP372
TP378
TP379
TP380
TP381
TP382
+3.3V
+1.8V
+5.6V
A
B
C
D
E
F
G
H
I
J
1
2
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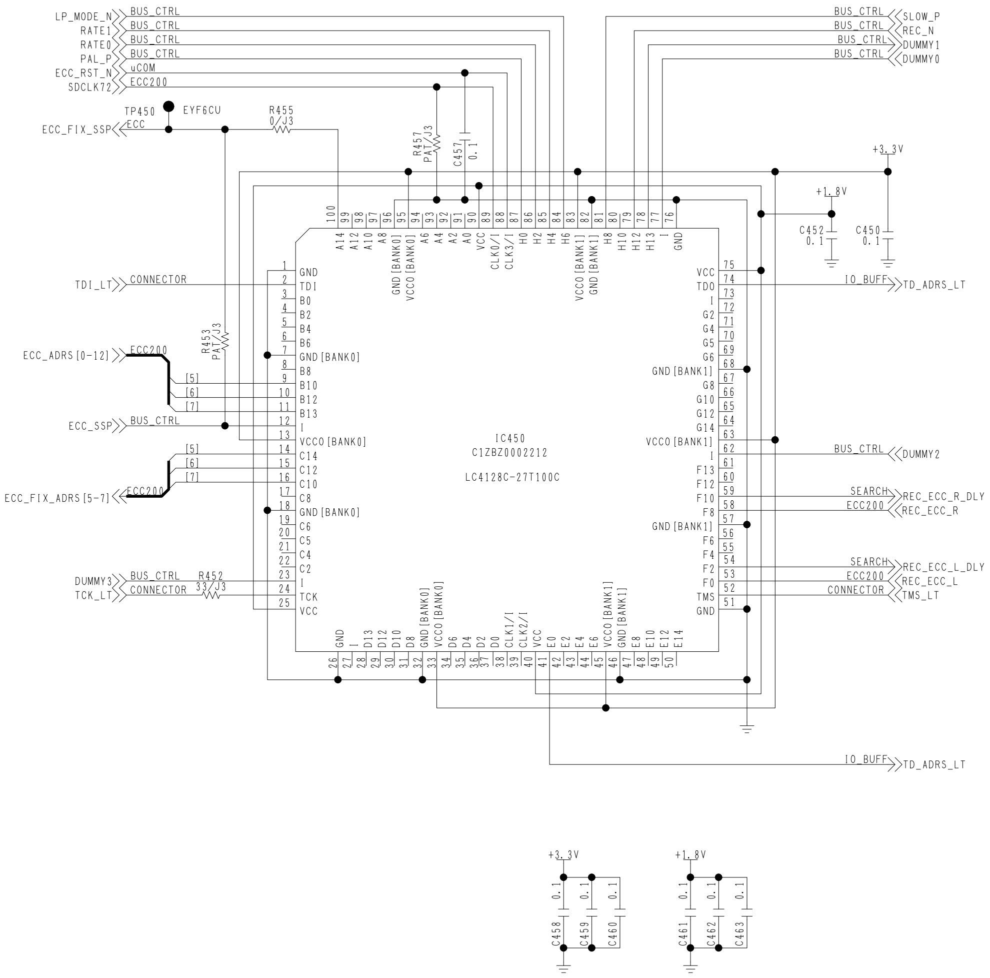
COMPONENT NAME	REC PB	08/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(8/12)	
	SCM034	


LP_MODE_N
RATE1
RATE0
PAL_P
ECC_RST_N
SDCLK72
BUS_CTRL
uCOM
ECC200
TP450
EYF6CU
ECC
ECC_FIX_SSP
R455
0/J3
R457
PAT/J3
C457
0.1
SLOW_P
REC_N
DUMMY1
DUMMY0
+3.3V
+1.8V
C452
0.1
C450
0.1
TDI_LT
CONNECTOR
R453
PAT/J3
ECC_ADRS[0-12]
[5]
[6]
[7]
ECC_SSP
ECC_FIX_ADRS[5-7]
DUMMY3
TCK_LT
R452
33/J3
IC450
C1ZBZ0002212
LC4128C-27T100C
IO_BUFF
TD_ADRS_LT
DUMMY2
SEARCH
REC_ECC_R_DLY
REC_ECC_R
REC_ECC_L_DLY
REC_ECC_L
TMS_LT
GND
TDI
B0
B2
B4
B6
GND[BANK0]
B8
B10
B12
B13
I
VCCO[BANK0]
C14
C12
C10
C8
C6
C5
C4
C2
TCK
VCC
TDO
G2
G4
G5
G6
GND[BANK1]
G8
G10
G12
G14
VCCO[BANK1]
F13
F12
F10
F8
F6
F4
F2
F0
TMS
A14
A12
A10
A8
A6
A4
A2
A0
CLK0/I
CLK3/I
H0
H2
H4
H6
H8
H10
H12
H13
D13
D12
D10
D8
D6
D4
D2
D0
CLK1/I
CLK2/I
E0
E2
E4
E6
E8
E10
E12
E14
C458
C459
C460
C461
C462
C463
A
B
C
D
E
F
G
H
I
J
1
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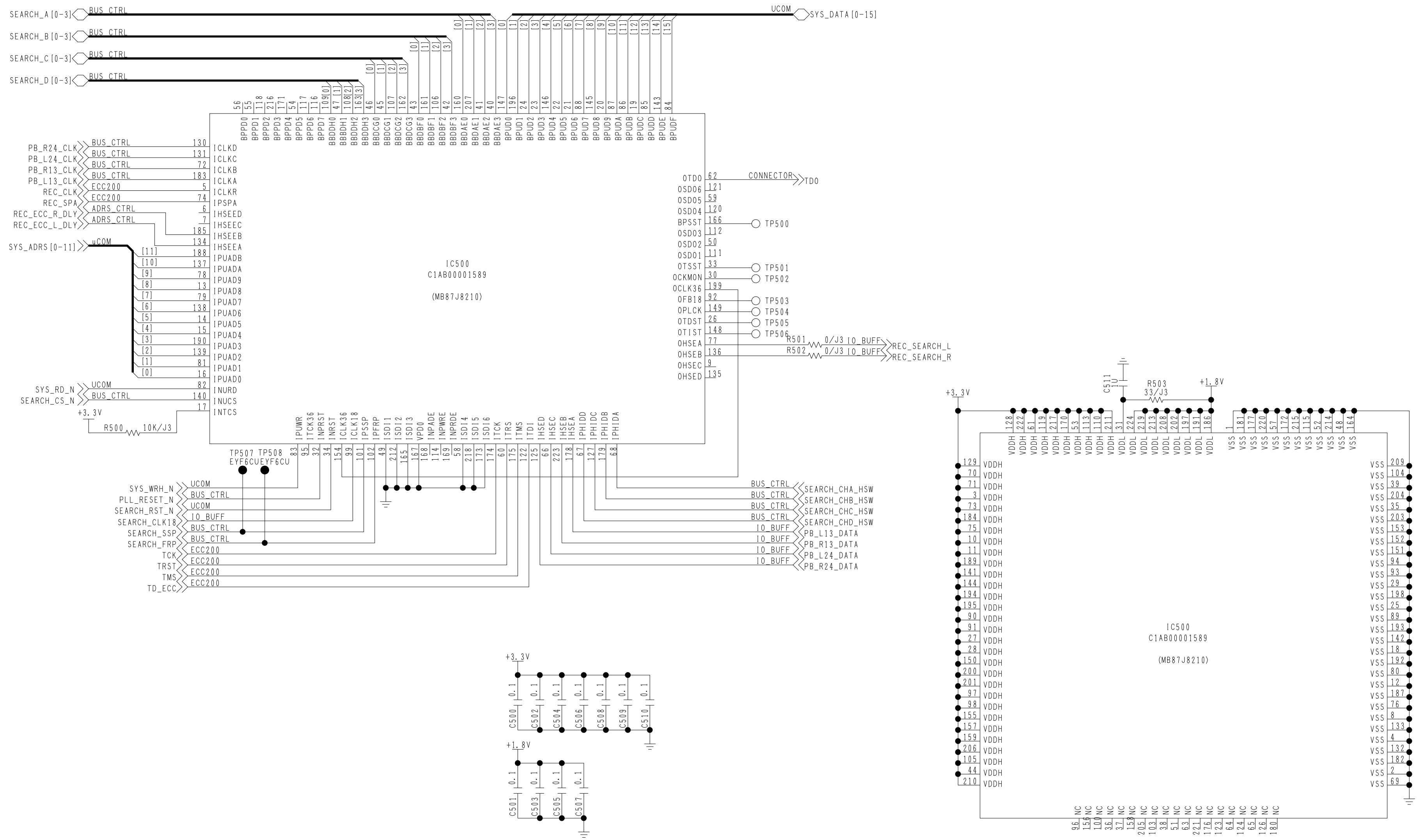
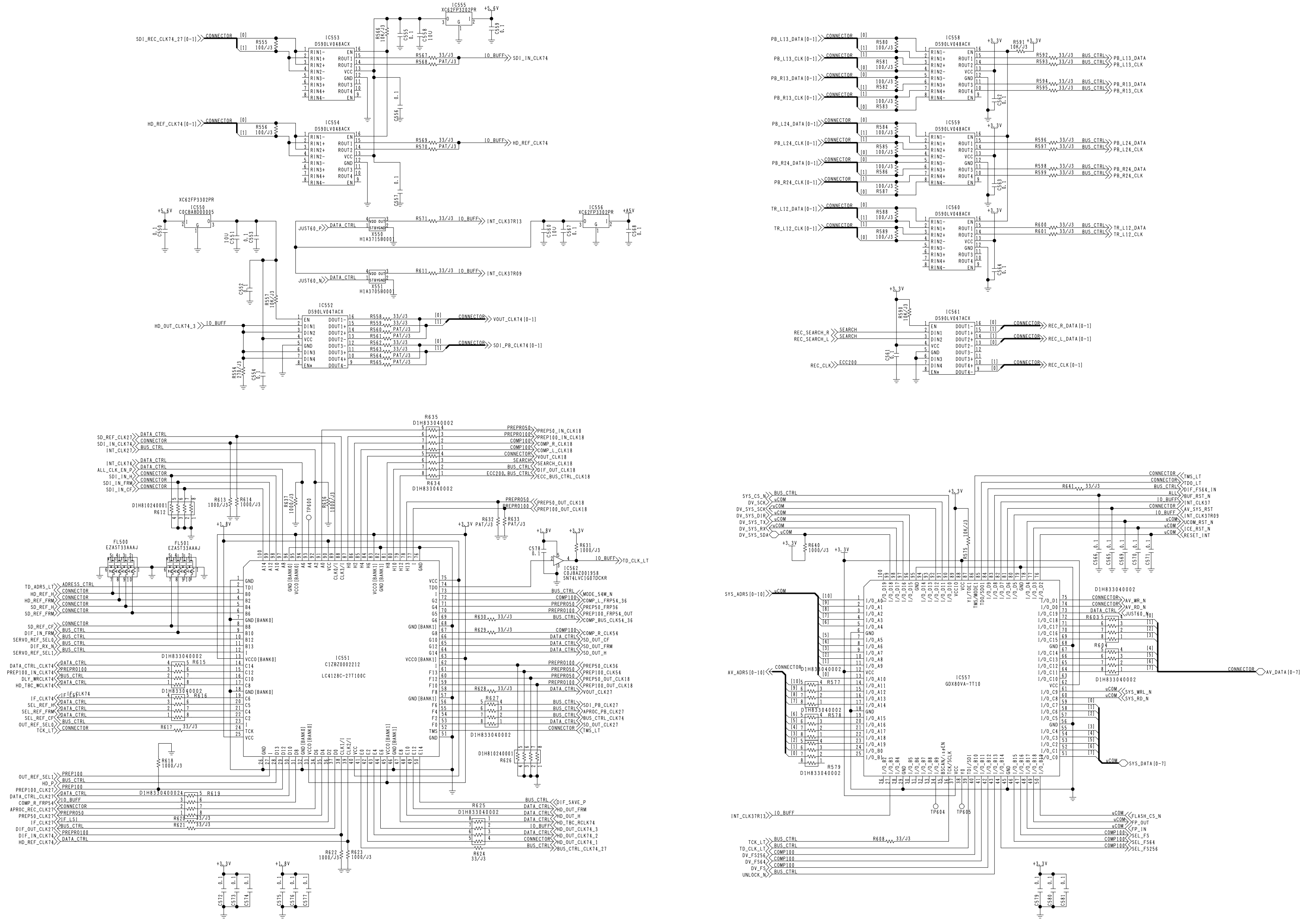
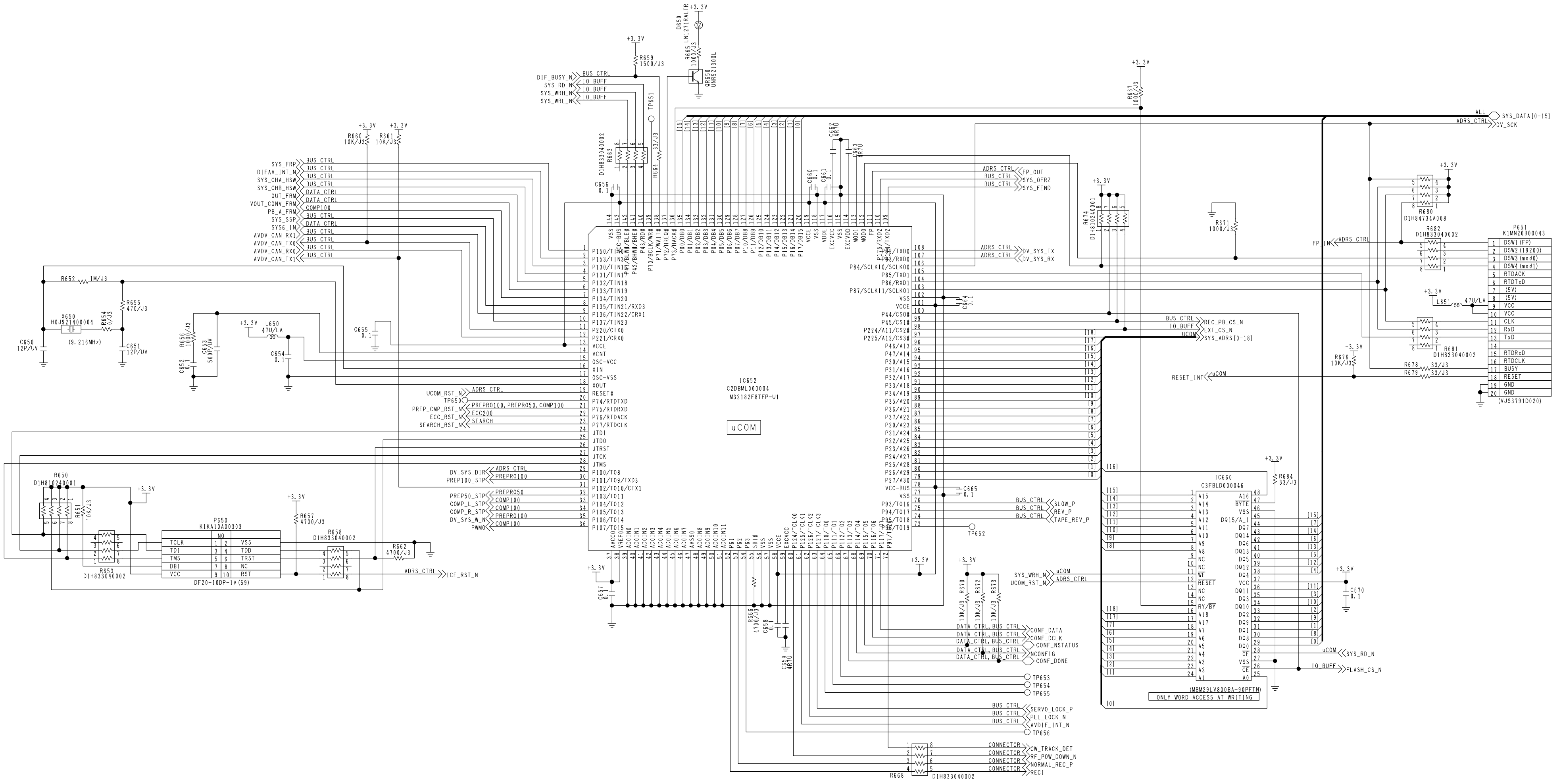
COMPONENT NAME	**REC PB**		09/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83624B		KR 3A0186(9/12)	
		SCM035	


SEARCH_A[0-3]
SEARCH_B[0-3]
SEARCH_C[0-3]
SEARCH_D[0-3]
BUS_CTRL
UCOM
SYS_DATA[0-15]
PB_R24_CLK
PB_L24_CLK
PB_R13_CLK
PB_L13_CLK
REC_CLK
REC_SPA
REC_ECC_R_DLY
REC_ECC_L_DLY
ECC200
ADRS_CTRL
SYS_ADRS[0-11]
uCOM
SYS_RD_N
SEARCH_CS_N
+3.3V
R500 10K/J3
ICLKD
ICLKC
ICLKB
ICLKA
ICLKR
IPSPA
IHSEED
IHSEEC
IHSEEB
IHSEEA
IPUADB
IPUADA
IPUAD9
IPUAD8
IPUAD7
IPUAD6
IPUAD5
IPUAD4
IPUAD3
IPUAD2
IPUAD1
IPUAD0
INURD
INUCS
INTCS
IC500
C1AB00001589
(MB87J8210)
OTDO
OSDO6
OSDO5
OSDO4
BPSST
OSDO3
OSDO2
OSDO1
OTSST
OCKMON
OCLK36
OFB18
OPLCK
OTDST
OTIST
OHSEA
OHSEB
OHSEC
OHSED
CONNECTOR
TDO
TP500
TP501
TP502
TP503
TP504
TP505
TP506
R501
R502
0/J3
IO_BUFF
REC_SEARCH_L
REC_SEARCH_R
TP507
TP508
EYF6CU
EYF6CU
SYS_WRH_N
PLL_RESET_N
SEARCH_RST_N
SEARCH_CLK18
SEARCH_SSP
SEARCH_FRP
TCK
TRST
TMS
TD_ECC
SEARCH_CHA_HSW
SEARCH_CHB_HSW
SEARCH_CHC_HSW
SEARCH_CHD_HSW
PB_L13_DATA
PB_R13_DATA
PB_L24_DATA
PB_R24_DATA
C500
C502
C504
C506
C508
C509
C510
C501
C503
C505
C507
0.1
+1.8V
C511
1U
R503
33/J3
VDDH
VDDL
VSS
NC

COMPONENT NAME	**REC PB**	10/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(10/12)	
	SCM036	


IC553
DS90LV048ACX
IC554
DS90LV048ACX
IC555
XC62FP3302PR
IC550
C0CBABD00005
XC62FP3302PR
IC556
XC62FP3302PR
X550
H1A3715B0001
X551
H1A3705B0001
IC552
DS90LV047ACX
IC558
DS90LV048ACX
IC559
DS90LV048ACX
IC560
DS90LV048ACX
IC561
DS90LV047ACX
IC551
C1ZBZ0002212
LC4128C-27T100C
IC557
GDX80VA-7T10
IC562
C0JBAZ001958
SN74LVC1G07DCKR
FL500
EZAST33AAAJ
FL501
EZAST33AAAJ
SDI_REC_CLK74_27[0-1]
HD_REF_CLK74[0-1]
SDI_IN_CLK74
HD_REF_CLK74
INT_CLK37R13
INT_CLK37R09
VOUT_CLK74[0-1]
SDI_PB_CLK74[0-1]
HD_OUT_CLK74_3
PB_L13_DATA[0-1]
PB_L13_CLK[0-1]
PB_R13_DATA[0-1]
PB_R13_CLK[0-1]
PB_L24_DATA[0-1]
PB_L24_CLK[0-1]
PB_R24_DATA[0-1]
PB_R24_CLK[0-1]
TR_L12_DATA[0-1]
TR_L12_CLK[0-1]
REC_R_DATA[0-1]
REC_L_DATA[0-1]
REC_CLK[0-1]
SYS_ADRS[0-10]
AV_ADRS[0-10]
AV_DATA[0-7]
SYS_DATA[0-7]
TD_CLK_LT

COMPONENT NAME	REC PB	11/12
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83624B	KR 3A0186(11/12)	
	SCM037	


IC652
C2DBML000004
M32182F8TFP-U1
uCOM
IC660
C3FBLD000046
(MBM29LV800BA-90PFTN)
ONLY WORD ACCESS AT WRITING
P651
K1MN20B00043
(VJS3791D020)
P650
K1KA10A00303
DF20-10DP-1V(59)
X650
H0J921400004
(9.216MHz)
R650
D1H810240001
R653
D1H833040002
R658
D1H833040002
R668
D1H833040002
R680
D1H847340008
R682
D1H833040002
R681
D1H833040002
D650
Q650
+3.3V
SYS_DATA[0-15]
DV_SCK
SYS_ADRS[0-18]
ICE_RST_N
FLASH_CS_N
SYS_RD_N
RESET_INT
CONF_DATA
CONF_DCLK
CONF_NSTATUS
NCONFIG
CONF_DONE
SERVO_LOCK_P
PLL_LOCK_N
AVDIF_INT_N
CW_TRACK_DET
RF_POW_DOWN_N
NORMAL_REC_P
REC1
SLOW_P
REV_P
TAPE_REV_P
REC_PB_CS_N
EXT_CS_N
DV_SYS_TX
DV_SYS_RX
FP_OUT
SYS_OFRZ
SYS_FEND
TP650
TP651
TP652
TP653
TP654
TP655
TP656
A
B
C
D
E
F
G
H
I
J
1
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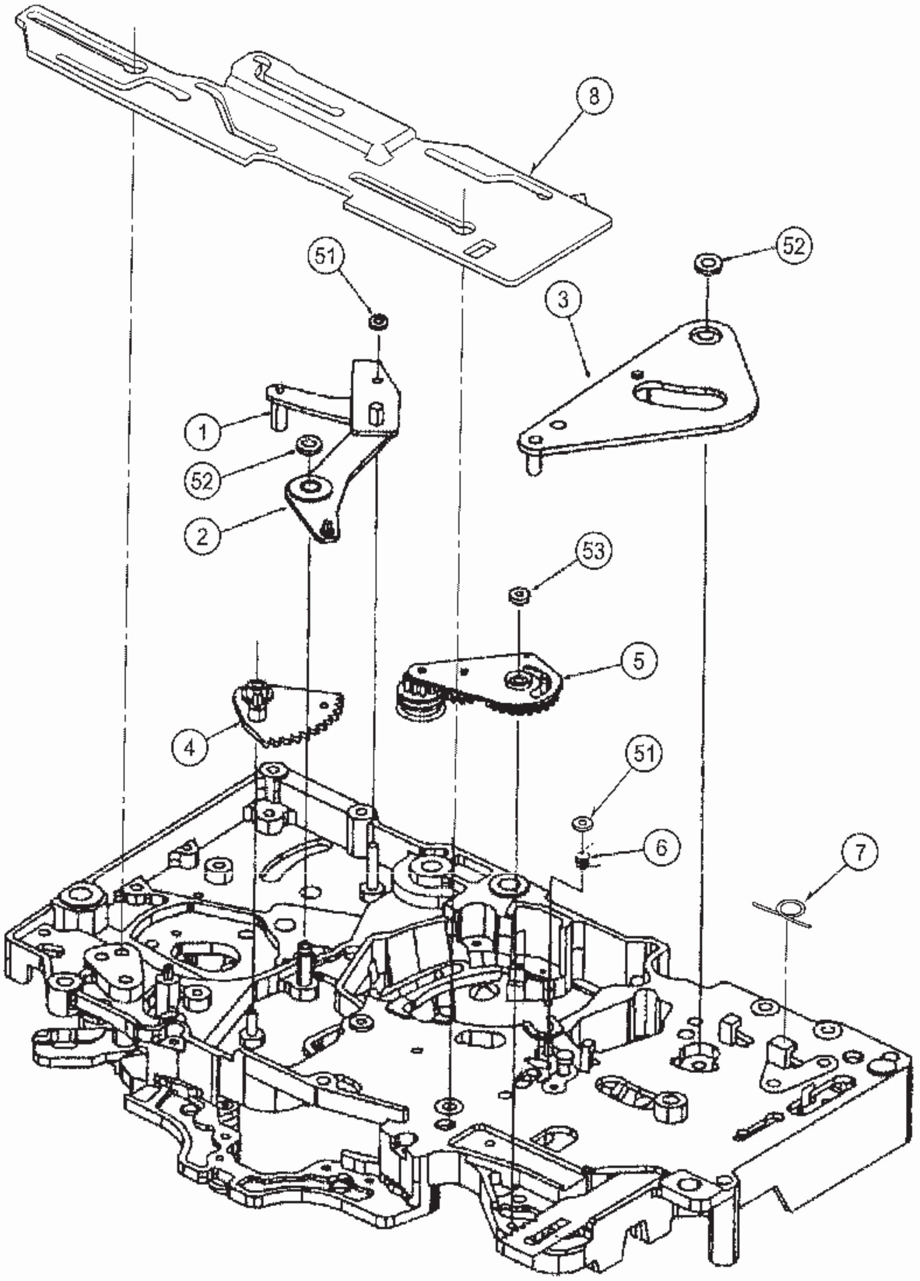
COMPONENT NAME	REC PB		12/12
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83624B		KR 3A0186(12/12)	
		SCM038	

MECHANICAL CHASSIS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA7038	MOTOR BRACKET	1	
1-1	VEM0726	MOTOR ASS'Y	1	(M)
1-2	VEK7927	DEW SENSOR	1	EYHS77Y7
1-3	VEK8982	FG SENSOR	1	
1-4	VXA6656	CLEANER SOLENOID ASS'Y	1	
1-4A	VSJ0226	CLEANER SOLENOID	1	(M)
1-5	VMM0441	CLEANER ROD	1	
1-6	VMB3454	CLEANER SPRING	1	
1-7	VES0925	MODE SW ASS'Y	1	(M)
1-8	VDG1426	WORM WHEEL	1	
1-9	VXP2029	WORM	1	
2	VED0466	A/C HEAD 1 ASS'Y	1	(M)
3	VMA0F40	HORIZONTAL FIX BASE	1	
4	VXA6658	HIGHT FIX BASE	1	
5	VMS5987	AZIMUTH SLEEVE	1	
6	VMB2937	A/C HEAD ADJUST SPRING	1	
7	VHD0045	NYLON NUT	1	
8	VMA0F93	CABLE GUIDE	1	
9	VMA0E98	SOLENOIDE ANGLE	1	
10	VSJ0227	PINCH SOLENOID	1	(M)
11	VMA0E90	SOLENOID BASE	1	
13	VDG1434	EM GEAR	1	
14	VDG1437	CAM CONNECTION GEAR B	1	
15	VMX2993	EM SLEEVE	1	
16	VMB3440	EM GEAR SPRING	1	
17	VDG1423	CAM CONNECTION GEAR A	1	
18	VXP2037	EMARGENCY CONNECTION GEAR	1	
19	VXA7523	S4 POST BASE ASS'Y	1	(M)
20	VXL3165	S TENSION ARM ASS'Y	1	(M)
21	VDG1438	TENSION LEG GEAR	1	
22	VDG1424	MAIN CAM GEAR	1	(M)
23	VXA6647	S LOAD SECTOR GEAR	1	
24	VDG1422	S CONNECTION GEAR	1	
25	VXA6717	EM ROD ASS'Y	1	
26	VEK8936	LED ASS'Y	1	
27	LMHD16064	SCREW	4	
28	VXA6700	TENSION LEG SECTOR GEAR	1	
29	VXA6644	TENSION SENSOR ASS'Y	1	
30	VXL3164	T5 ARM ASS'Y	1	(M)
30-1	VXL2989	T5 DRIVE LEVER A	1	
30-2	VXL2991	T5 DRIVE LEVER B	1	
30-3	VMB3436	T5 CHARGE SPRING	1	
30-4	VMX2982	T5 ARM SLEEVE	1	
31	VMB3418	T5 THRUST SPRING	2	
32	VMD3910	TENSION BASE	1	
33	VMB3434	A/C HIGHT SPRING	1	
34	VXA6703	PINCH ELEVATOR ASS'Y	1	
35	VXA7886	T LOADING ASS'Y	1	(M)
35-1	VMB3426	T LOADING SPRING	1	
35-2	VDG1428	T LOADING GEAR	1	
36	VXA7885	S LOADING ASS'Y	1	(M)
36-1	VMB3425	S LOADING SPRING	1	
36-2	VDG1427	S LOADING GEAR	1	
37	VXL3008	SOLENOID TURN ARM	1	
38	VML3520	SLENOID CONNECTION ARM	1	
39	VXL3002	PINCH TURN ARM	1	
40	VXL3163	T6 ARM ASS'Y	1	(M)
41	VXL3011	ELEVATOR DRIVE ASS'Y	1	
42	VEG1655	CYLINDER UNIT	1	(M)
42-1	VMD3885	CAP	1	
43	VEM0717	CAPSTAN ASS'Y	1	(M)
44	VXL3028	CLEANING ARM ASS'Y	1	(M)
45	VXQ0439	SCREW	3	
46	VXL3040	PINCH ARM ASS'Y	1	(M)
48	VMD4544	LOADING SECTOR GEAR ASS'Y	1	
49	VMB2948	SPRING	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
71	XQN2+A3	SCREW	2	
72	XQN2+A2	SCREW	3	
73	XQN2+CF3	SCREW	8	
75	XQN2+A5	SCREW	2	
76	VMX0967	CUT WASHER	5	
77	XQN16+A2	SCREW	3	
78	XVE2B12FP	HEX SCREW	1	
79	XVE2B4FZ	HEX SCREW	2	
80	XWA2B	WASHER	2	
81	XWG2A5	WASHER	3	
82	XXE2A6FP	HEX SCREW	2	
83	XYN2+K5	SCREW	2	
84	VMX1599	CUT WASHER	3	
85	XQN2+CF4	SCREW	2	
86	VMX1061	WASHER	5	
87	XYN2+C5	SCREW	4	
88	VMX2027	CUT WASHER	1	
89	XWGV2Y4G	WASHER	1	
90	XUC12FP	E-RING	2	
91	XWGV15Z32G	WASHER	2	
92	XQN2+B3FZ	SCREW	3	
94	VMX0653	CUT WASHER	1	
95	XYN26+C4	SCREW	2	
*	VXY1842Z1	MECHANIZM ASS'Y	1	(M)

MECHANICAL CHASSIS ASSEMBLY (2)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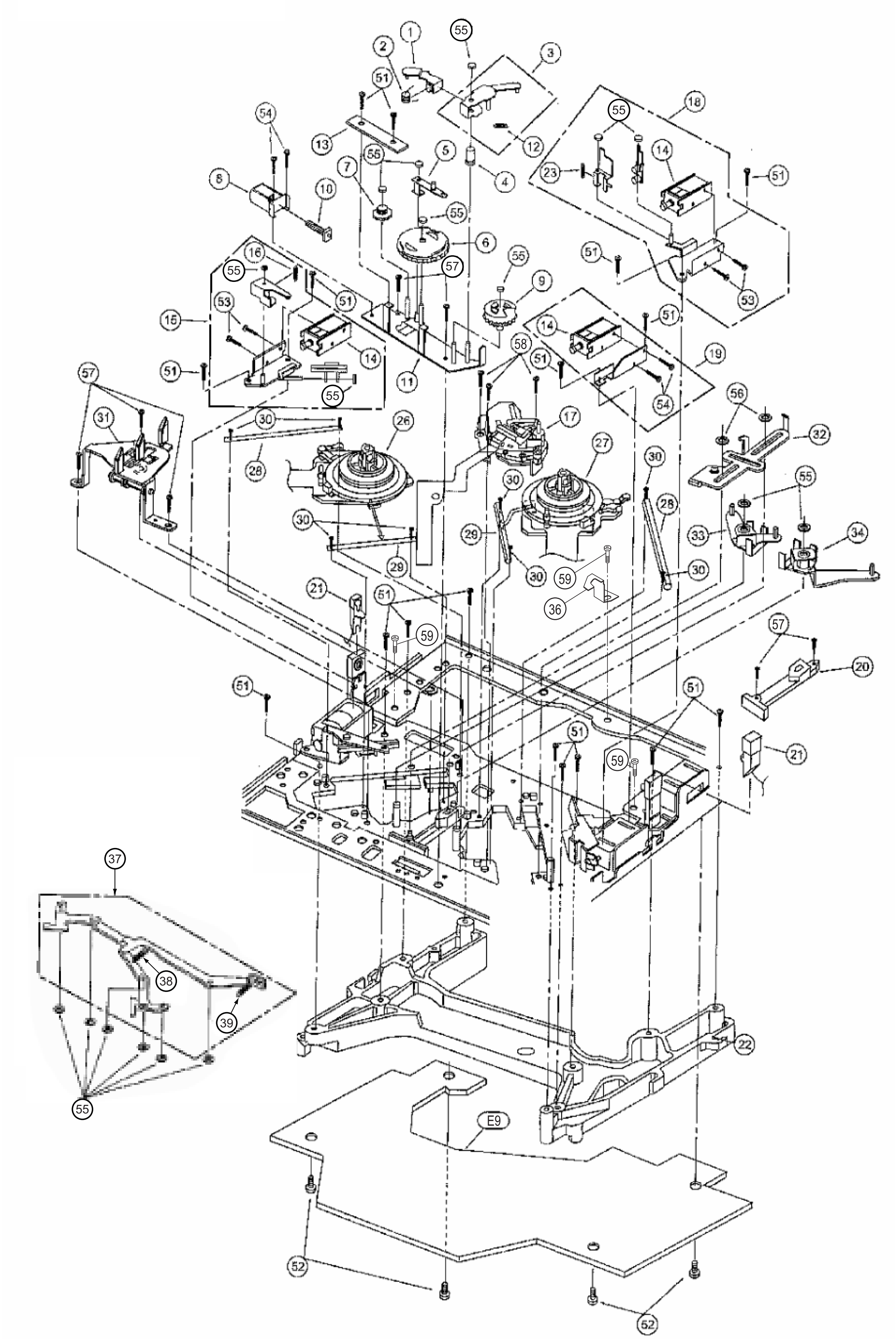
MECHANICAL CHASSIS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL3007	PINCH DRIVE ARM	1	
2	VXL3010	CONNECTION ARM	1	
3	VXL3043	MAIN CAM ARM	1	
4	VXA6649	T ROD SECTOR GEAR	1	
5	VXL3238	IDLER ARM ASS'Y	1	
6	VMB3445	TENSION LEG SECTOR GEAR	1	
7	VMB3453	EM ROD SPRING	1	
8	VMA0E80	MAIN ROD	1	
51	VMX1061	WASHER	2	
52	VMX0967	CUT WASHER	2	
53	VMX2391	CUT WASHER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

SUB CHASSIS ASSEMBLY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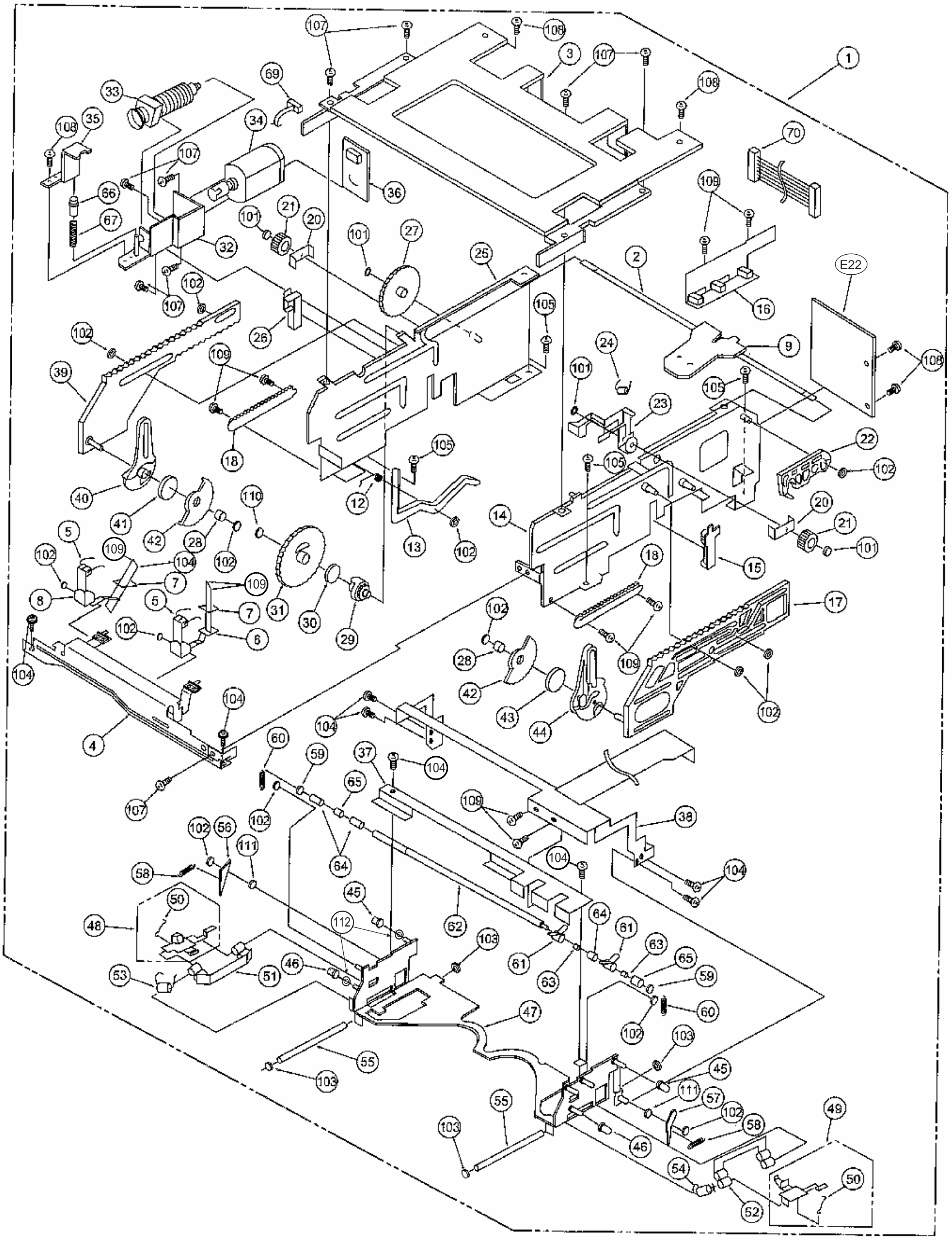
SUB CHASSIS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL2656C	MIC DRIVE ARM A ASS'Y	1	
2	VMB3018	MIC DRIVE SPRING	1	
3	VXL2657	MIC DRIVE ARM B ASS'Y	1	OR VXL2657C
4	VDB1429	MIC DRIVE ARM BOSS	1	
5	VXL2613C	REEL DRIVE ARM ASS'Y	1	
6	VDG1192	REEL DRIVE CAM GEAR	1	
7	VDG1193	REEL DRIVE WORM WHEEL	1	
8	VEM0585C	REEL DRIVE MOTOR ASS'Y	1	(M)
9	VDG1211	MIC GENEVA GEAR	1	
10	VXP1698C	REEL DRIVE WORM ASS'Y	1	OR VXP1698C
11	VXA5628	MOTOR BASE ASS'Y	1	OR VXA5628C
12	VMB3019	MIC DRIVE RETURN SPRING	1	
13	VEK7726C	REEL SENSOR P.C.BOARD	1	
14	VSJ0216	SOLENOID	3	(M)
15	VXA5575C	S-BRAKE SOLENOID BASE ASS'Y	1	OR VXA5575C
16	VMB2957	S BRAKE SPRING	1	
17	VXA7921C	DISTINCTION SW ASS'Y	1	(M)
18	VXA6651	T BRAKE SOLENOID ASS'Y	1	
19	VXA5579C	M STOPPER SOLENOID ASS'Y	1	OR VXA5579C
20	VMD3908	SLIDE ROD STOPPER	1	
21	VEK7692C	SENSOR HOLDER ASS'Y	2	
22	VMA0L40	SUB CHASSIS SUPPORT PLATE	1	
23	VMB2987	T BRAKE SPRING	1	
26	VEM0724	S REEL MOTOR ASS'Y	1	(M)
27	VEM0731	T REEL MOTOR ASS'Y	1	(M)
28	VMS5923	REEL OUTER RAIL	2	
29	VMS5924	REEL INNER RAIL	2	
30	VHD0995	SCREW	8	
31	VXA6650	BRAKE RELEASE ASS'Y	1	
32	VXA6652	SLIDE ROD	1	
33	VXL2980	S BASE DRIVE ARM	1	
34	VXL2981	T BASE DRIVE ARM	1	
36	VMC1652	T1 BOAT GUIDE	1	
37	VXL2982	M STOPPER DRIVE ARM ASS'Y	1	
38	VMB2955	M STOPPER SPRING (1)	1	
39	VMB3439	RELESE SPRING	1	
51	XQN2+CF4	SCREW	17	
52	XYN26+F8	SCREW	4	
53	XQN2+A1.5	SCREW	4	
54	XQN2+A2	SCREW	4	
55	VMX0967	CUT WASHER	17	
56	VMX1079	CUT WASHER	2	
57	XQN2+CF3	SCREW	7	
58	XQN2+AF3	SCREW	3	
59	XYN26+C5	SCREW	3	
E9	VEP82250A	MECHA I/F P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRONT LOADING ASSEMBLY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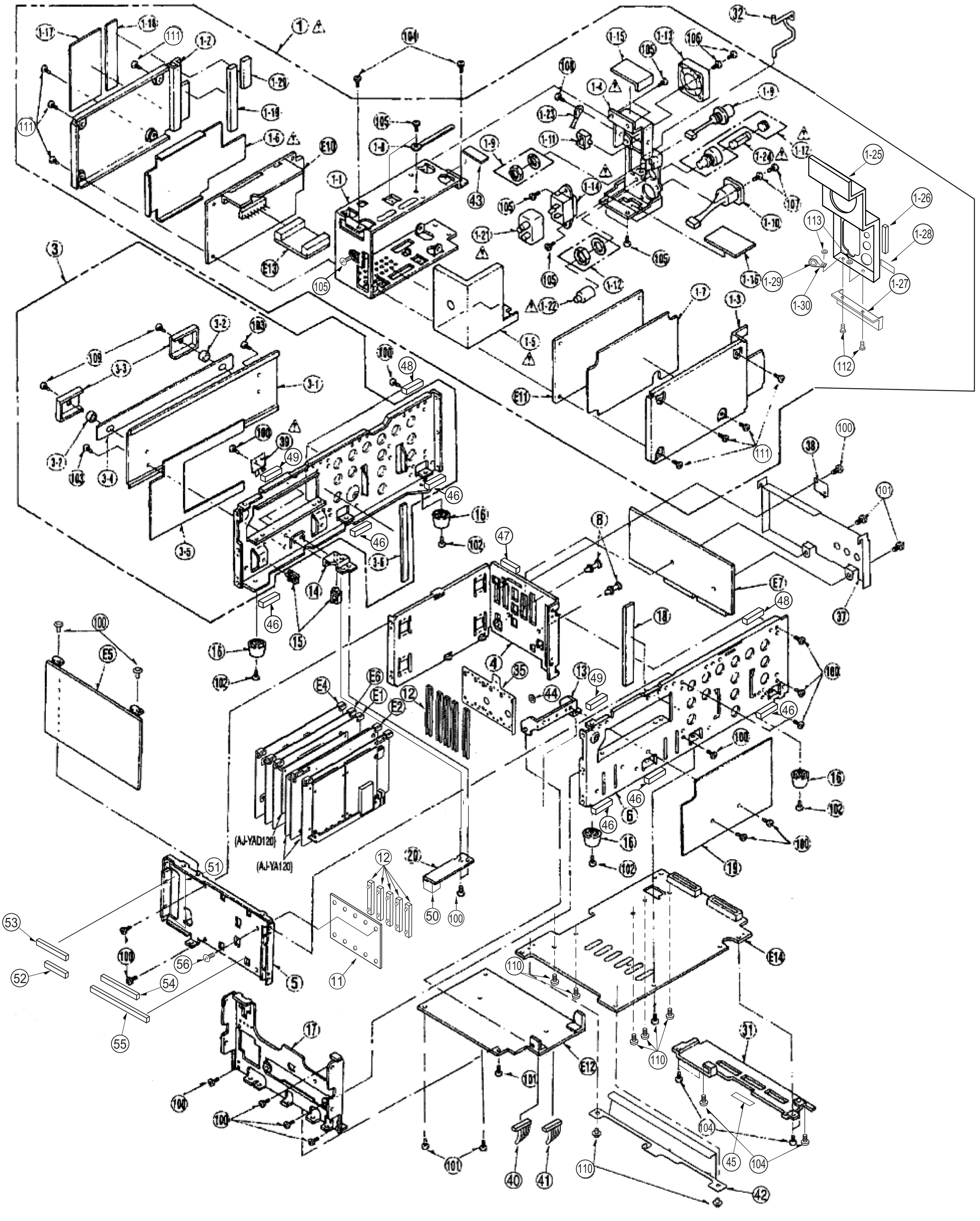
FRONT LOADING ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA7920	FRONT LOADING ASS'Y	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VMA0M72	FRONT GUIDE 1 ASS'Y	1	
5	VMB3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
12	VMB2926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA7355	SIDE PLATE R 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1412	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
24	VMB2979	SPRING	1	
25	VXA7353	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1413	INTERAMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1414	CLUTCH GEAR	1	
30	VMB2980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E.E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P.C.BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML3485	WIPER ARM (R)	1	
41	VMB3391	WIPER ARM (L)	1	
42	VDG1163	WIPER GEAR	2	
43	VMB3390	WIPER SPRING (L)	1	
44	VML3484	WIPER SPRING (R)	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VMB3064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VMB3061	SLIDE GUIDE SPRING L	1	
54	VMB3062	SLIDE GUIDE SPRING R	1	
55	VMS6108	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VMB2928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VMB2927	CASSETTE HOLDER SPRING	2	
61	VMX2833	M-L DETECT ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VMB3253	M-L DETECT SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	2	
66	VDG1246	EMARGENCY GEAR	1	
67	VMB3109	EMARGENCY SPRING	1	
69	VEE9577	CABLE	1	
70	VEE9632	MOTOR CABLE	1	
101	VMX0653	CUT WASHER	4	
102	VMX0967	CUT WASHER	14	
103	VMX1061	WASHER	4	
104	XQN16+A2	SCREW	9	
105	XQN2+CF3	SCREW	4	
107	VHD1323	SCREW	9	
108	XQN2+A3	SCREW	5	
109	LMHD16064	SCREW	11	
110	XUC25FP	E-RING	1	
111	XWGV2Z5G	WASHER	2	
112	XWGV2Z4G	WASHER	2	
E22	VEP80856A	CARRIGE P.C.BOARD	1	

CHASSIS & FRAME ASSEMBLY

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.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CHASSIS FRAME ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VEK0G83	POWER ASS'Y	1	FOR AJ-HD1200AP
⚠ 1	VEK0G99	POWER ASS'Y	1	FOR AJ-HD1200AE/AMC
1-1	VSC4997	POWER CASE (B)	1	
1-2	VSC4858	POWER CASE (D)	1	
1-3	VSC4996	POWER CASE (C)	1	
⚠ 1-4	VSC4986	POWER CASE (A)	1	
⚠ 1-5	VMZ2879	SHIELD SHEET (B)	1	
⚠ 1-6	VMZ2878	SHIELD SHEET (A)	1	
1-7	VMZ2880	SHIELD SHEET (C)	1	
1-8	VJF0469	CLAMPER	1	
1-9	VEE0E65	DC OUT CABLE	1	
1-10	VJP1885	CONNECTOR (MALE)	1	K1AA104H0020
1-11	VJF0285	WIRE LOCKING SADDLE	1	
⚠ 1-12	K3GA1BJ00014	FUSE HOLDER	1	
1-13	L6FAHBBD0001	FAN MOTOR	1	
⚠ 1-14	VJP0083	AC INLET	1	
1-15	VGF0797	DUST PROOF SHEET (A)	1	
1-16	VGF0798	DUST PROOF SHEET (B)	1	
1-17	VGF0799	DUST PROOF SHEET (C)	1	
1-18	VGF0800	DUST PROOF SHEET (D)	1	
1-19	VMT1015	DUST PROOF CUSHION (B)	1	
1-20	VMT1014	DUST PROOF CUSHION (A)	1	
⚠ 1-21	VMZ1252	AC INLET COVER	1	
⚠ 1-22	VMZ2139	FUSE HOLDER COVER	1	
1-23	VEE0F62	AC GND	1	
⚠ 1-24	VSF0106C25H	FUSE	1	
1-25	VMP6063	POWER ANGLE	1	
1-26	VMT0825	GASKET	1	
1-27	VMP6178	POWER SUPPLY COVER	1	
1-28	VGF0808	ANGLE COVER	1	
1-29	VLP0408	CORE	1	FOR AJ-HD1200AE/MC
1-30	VMD3785	CLAMPER	1	FOR AJ-HD1200AE/MC
3	VYH0271	HANDLE ASS'Y	1	
3-1	VGM1569	HANDLE COVER	1	
3-2	VMX2845	HANDLE SPACER	2	
3-3	VMP5938	HANDLE ANGLE	2	
3-4	VKH0388	HANDLE	1	
3-5	VGF0761	DUST PROOF SHEET (A)	1	
3-6	VMT0999	DUST PROOF CUSHION (L)	1	
4	VMP6735	BACK FRAME	1	
5	VMP6734	CENTER FRAME	1	
6	VMP5878	SIDE FRAME (R)	1	
8	VKC0554	MINI CARD SPACER	2	
11	VMP6767	GUIDE RAIL HOLDER PLATE B	1	
12	VGQ1016	GUIDE RAIL	10	
13	VMP5906	P.C.BOARD HOLDER ANGLE	1	
14	VMP5905	P.C.BOARD ANGLE	1	
15	VJF0004	WIRE SADDLE	2	
16	VKA0117	PLASTIC FOOT	4	
17	VMP6830	FRONT FRAME	1	
18	VMT0965	DUST PROOF CUSHION (A)	1	
19	VGF0762	DUST PROOF SHEET (B)	1	
20	VGF0789	DUST PROOF BARRIER	1	
31	VMP5867	BOTTOM FRAME	1	
32	VML2903	AC CORD HOOK	1	
35	VMP8044	GUIDE RAIL HOLDER PLATE A	1	
37	VSC5182	AV I/O SHIELD PLATE	1	
38	VMP6927	AV I/O HOLDER ANGLE	1	
⚠ 39	VMZ2955	POWER SW BARRIER	1	
40	VEE0N31	CABLE	1	
41	VEE0N30	CABLE	1	
42	VSC5635	SHIELD PLATE	1	
43	VGF0808	COVER SHEET	1	
44	VJF0861	BUSHING	1	
45	VMT0798	GASKET	1	FOR AJ-HD1200AE/MC
46	VMT0825	GASKET	6	FOR AJ-HD1200AE/MC
47	VMT0904	GASKET	1	FOR AJ-HD1201AE/MC
48	VMT1227	GASKET	2	
49	VMT1228	GASKET	3	
50	VMT0977	DUST PROOF CUSHION (G)	1	
51	VGF0783	DUST PROOF SHEET (D)	1	
52	VMT0976	DUST PROOF CUSHION (F)	1	
53	VMT1000	DUST PROOF CUSHION (M)	1	
54	VMT1001	DUST PROOF CUSHION (N)	1	
55	VMT1002	DUST PROOF CUSHION (O)	1	
56	VHN0338	NYLON RIVET	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
100	XTV3+6F	SCREW	18	
101	XYE3+EF8FR	SCREW	5	
102	XTV3+10F	SCREW	4	
103	XTV3+6FFZ	SCREW	2	
104	XTV3+6FFR	SCREW	6	
105	XTV3+8F	SCREW	8	
106	XSN3+16FZ	SCREW	2	
107	XSN26+6FC	SCREW	2	
108	XYE4+EF8	SCREW	1	
109	XSS4+14FZ	SCREW	2	
110	XYE3+EF8	SCREW	8	
111	XYN3+F8	SCREW	8	
112	XYN3+J8	SCREW	2	FOR AJ-HD1200AE/MC
113	XNG3BS	NUT	2	FOR AJ-HD1200AE/MC
E1	VEP83624B	REC/PB P.C.BOARD	1	
E2	VEP83625B	V OUT SYSCON P.C.BOARD	1	
E4	VEP85214B	RF/EQ P.C.BOARD	1	
E5	VEP85215A	RF/CUE P.C.BOARD	1	
E6	VEP84393B	A PROC P.C.BOARD	1	
E7	VEP84368B	A I/O P.C.BOARD	1	
E10	VEP81203D	POWER 1 P.C.BOARD	1	FOR AJ-HD1200AP
E10	VEP81203E	POWER 1 P.C.BOARD	1	FOR AJ-HD1200AE/MC
E11	VEP81219B	POWER 2 P.C.BOARD	1	
E12	VEP81232B	POWER 3 P.C.BOARD	1	
E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	
E14	VEP80C73B	MOTHER P.C.BOARD	1	

CASING ASSEMBLY

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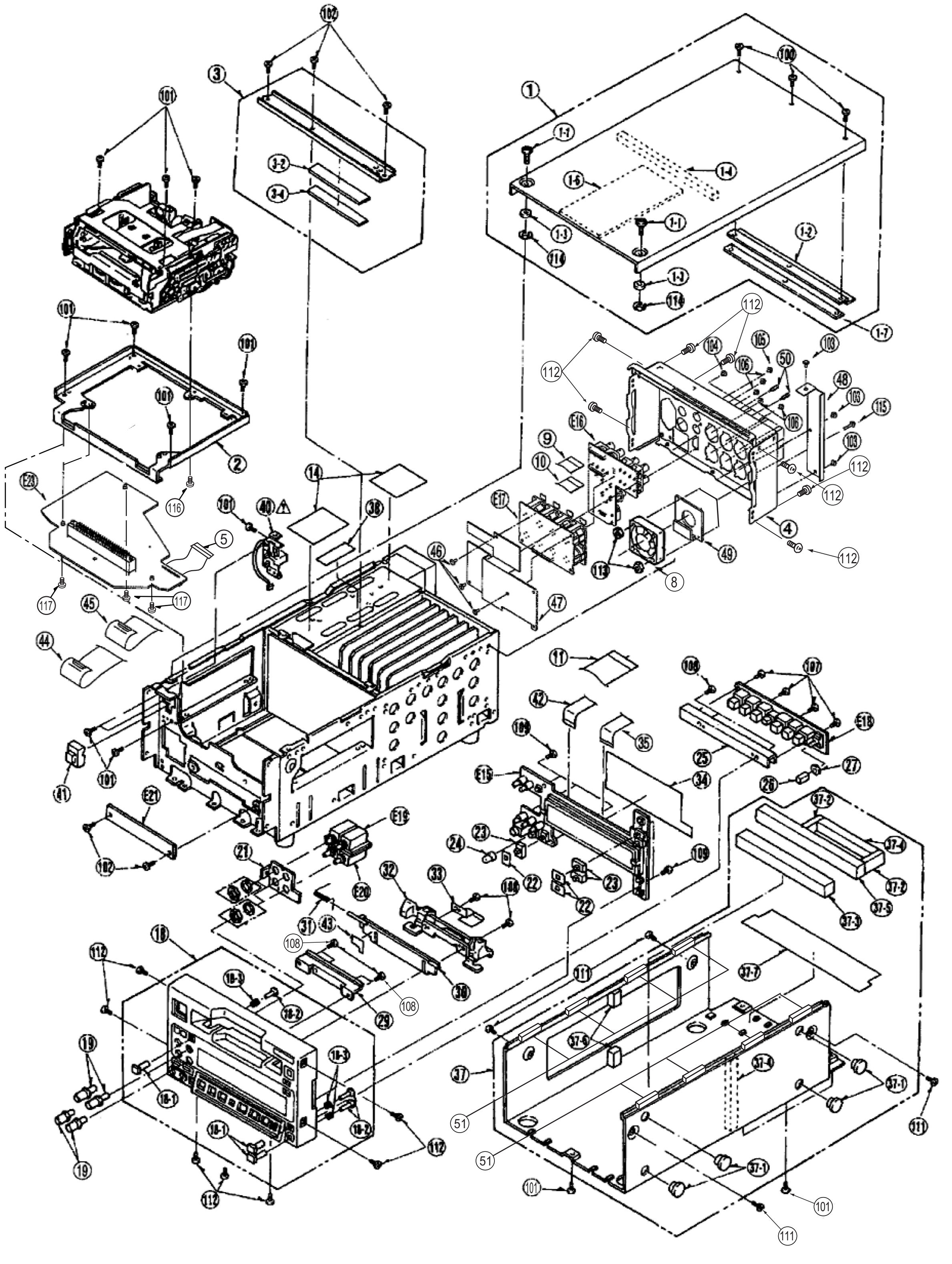
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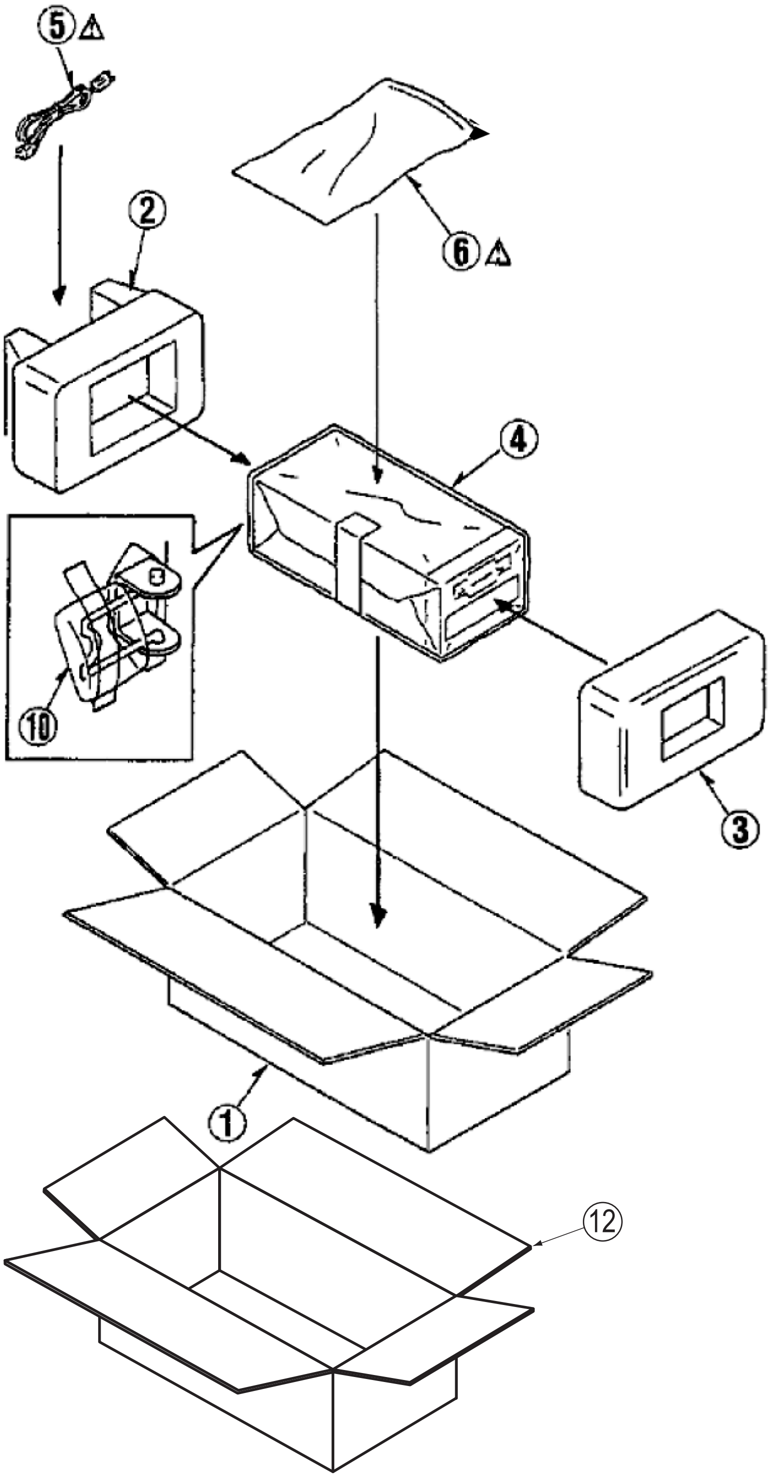
CASING ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYM0206	TOP PLATE ASS'Y	1	
1-1	VHD0274	SCREW	2	
1-2	VMP5903	TOP PANEL ANGLE	1	
1-3	VMX2510	SPACER	2	
1-4	VMT0967	DUST PROOF CUSHION (C)	1	
1-6	VMZ2325	TOP PANEL BARRIER	1	
1-7	VMX2930	SCREW GUIDE SPACER	1	
2	VXA7800	CHASSIS ANGLE ASS'Y	1	
3	VXA6923	P.C.B. ANGLE A ASS'Y	1	
3-2	VMX3068	P.C.B. HOLDER RUBBER (A)	1	
3-4	VMX3069	P.C.B. HOLDER RUBBER (B)	1	
4	VJH1244	JACK PLATE	1	
5	VEE0Z29	8P CABLE	1	
8	L6FAHBBD0001	FAN MOTOR	1	
9	VWJ1712	AV REMOTE FFC	1	
10	VWJ1711	REAR JACK FFC	1	
11	VWJ1463	28P FFC	1	
14	VMZ2909	SHEET (B)	2	
18	VYP9004	FRONT PANEL (1) ASS'Y	1	
18-1	VGU3894	BUSH BUTTON	3	
18-2	VMB2597	KEY BUTTON COIL SPRING	3	
18-3	VGQ3176	PUSH BUTTON	3	
19	VXU1160	REC VR KNOB	4	
21	VMP5873	VR HOLDER ANGLE	1	
22	VGF0687	SLIDE SW SHEET	3	
23	VGU5582	SWITCH KNOB	3	
24	VGU5605	KNOB	1	
25	VMP5908	P.C.BOARD HOLDER ANGLE	1	
26	VGU8134	TOGGLE SW KNOB	1	K0YA00000037
27	VGK2475	TOGGLE SW SHEET	1	
29	VMP5909	TOP PANEL ANGLE	1	
30	VKF3191	BLIND PANEL	1	FOR AJ-HD1200AP/E
30	VKF3434	BLIND PANEL	1	FOR AJ-HD1200AMC
31	VMB3334	BLIND SPRING	1	
32	VYQ2807	CASSETTE GUIDE ASS'Y	1	
33	VGF0706	FLEXIBLE CABLE BARRIER	1	
34	VMZ2905	FRONT P.C.BOARD BARRIER	1	
35	VWJ24AW210M0	FRONT (1) FFC	1	
37	VYF2998	BOTTOM PLATE ASS'Y	1	
37-1	VMG1197	FOOT	4	
37-2	VMT0976	DUST PROOF CUHION (F)	2	
37-3	VMT1003	DUST PROOF CUHION (P)	1	
37-4	VMT0965	DUST PROOF CUHION (B)	2	
37-5	VMT0967	DUST PROOF CUHION (C)	1	
37-6	VMT0968	DUST PROOF CUHION (D)	2	
37-7	VGF0834	DUST PROOF SHEET	1	
38	VGF0763	DUST PROOF SHEET (C)	1	
⚠ 40	VES0899	POWER SW ASS'Y	1	
41	VGU8051	POWER BUTTON	1	
42	VWJ1276	KEY FFC	1	
43	VGF0836	BLIND SHEET	1	
44	VWJ40E5090L0	FLEXIBLE CABLE	1	
45	VWJ40E5070L0	FLEXIBLE CABLE	1	
46	VJF0108	SPACER	3	
47	VMZ3436	SHIELD SHEET	1	
48	VMP7957	BLANK PANEL	1	
49	VSC5619	FAN SHIELD	1	
50	VXQ0102	SCREW	2	K1YE50000008
51	VMT0877	GASKET	8	
100	XQN26+A25FC	SCREW	3	
101	XTV3+6F	SCREW	15	
102	XTV3+6FFR	SCREW	5	
103	XTV3+6FFZ	SCREW	3	
104	XSN26+6FZ	SCREW	8	
105	XYE4+EF8	SCREW	1	
106	XTN3+10JFZ	SCREW	5	
107	XTN3+F6RS	SCREW	4	
108	XTV3+8G	SCREW	8	
109	XYE3+EJ10FR	SCREW	5	
111	XSB4+4FCW	SCREW	4	
112	XTV3+8FFZ	SCREW	14	
113	XNG3B	NUT	2	
114	VMX2582	WASHER	2	
115	XYN3+K20FZ	SCREW	2	
116	XYE3+EF6	SCREW	1	
117	XYN26+F5	SCREW	3	
E15	VEP86343A	FRONT P.C.BOARD	1	
E16	VEP83626A	V JACK P.C.BOARD	1	
E17	VEP84394B	A JACK P.C.BOARD	1	
E18	VEP86344A	KEY P.C.BOARD	1	
E19	VEP86346A	REC VR P.C.BOARD	1	
E20	VEP86347A	PB VR P.C.BOARD	1	
E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	
E23	VEP82249B	SERVO P.C.BOARD	1	

PACKING PARTS ASSEMBLY

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VPG9169	PACKING CASE	1	
2	VPN5024	CUSHION (R)	1	
3	VPN5023	CUSHION (L)	1	
4	VPF0876	POLYETHYLENE BAG	1	
⚠ 5	K2CG3CH00001	POWER CORD	1	FOR AJ-HD1200AP
⚠ 5	VJA0774	POWER CODE	1	FOR AJ-HD1200AE
⚠ 5	VJA0775	POWER CODE	1	FOR AJ-HD1200AE
⚠ 5	K2CK3DH00015	POWER CORD	1	FOR AJ-HD1200AMC
⚠ 6	VQT0L36	OPERATING INSTRUCTIONS	1	FOR AJ-HD1200AP
⚠ 6	VQT0L37	OPERATING INSTRUCTIONS	1	FOR AJ-HD1200AE
⚠ 6	VQT0L38	OPERATING INSTRUCTIONS	1	FOR AJ-HD1200AMC
10	VPF0892	POLYETHYLENE BAG (2)	1	
12	VPG0Z66	PACKING CASE	1	FOR AJ-HD1200AMC

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

ELECTRICAL REPLACEMENT PARTS LIST

For AJ-HD1200AP

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83624B	REC PB P.C.BOARD	1	(RTL)
■ E2	VEP83625B	V OUT SYS P.C.BOARD	1	(RTL)
■ E4	VEP85214B	RF/EQ P.C.BOARD	1	(RTL)
■ E5	VEP85215A	RF/CUE P.C.BOARD	1	(RTL)
■ E6	VEP84393B	APROC P.C.BOARD	1	(RTL)
■ E7	VEP84368B	A I/O P.C.BOARD	1	(RTL)
■ E9	VEP82250A	MECHA I/F P.C.BOARD	1	(RTL)
■ E10	VEP81203D	POWER 1 P.C.BOARD	1	(RTL)
■	VEP81233A	SUB POWER 1 P.C.BOARD	1	(RTL)FOR VEP81203D
■ E11	VEP81219B	POWER 2 P.C.BOARD	1	(RTL)
■ E12	VEP81232B	POWER 3 P.C.BOARD	1	(RTL)
■ E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	(RTL)
■ E14	VEP80C73B	MOTHER P.C.BOARD	1	(RTL)
■ E15	VEP86343A	FRONT P.C.BOARD	1	(RTL)
■ E16	VEP83626A	V JACK P.C.BOARD	1	(RTL)
■ E17	VEP84394B	A JACK P.C.BOARD	1	(RTL)
■ E18	VEP86344A	KEY P.C.BOARD	1	(RTL)
■ E19	VEP86346A	REC VR P.C.BOARD	1	(RTL)
■ E20	VEP86347A	PB VR P.C.BOARD	1	(RTL)
■ E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	(RTL)
■ E22	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
■ E23	VEP82249B	SERVO P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83624B	REC PB P.C.BOARD	1	(RTL)
C1,C2	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C3,C4	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C5,C6	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C7,C8	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C9,10	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	F1H1H102A009
C11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C12	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C13	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C14-17	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	4	
C18-26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C27-31	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	5	
C50-73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	24	
C100-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	15	
C150-65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C166,67	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C168,69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C170	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C171	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C172	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C173	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C174	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C175-84	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C200	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C201	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C202	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C203-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C250,51	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C252	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C253,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C255	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C256	ECUX1C184KBN	C.CAPACITOR CH 16V 0.18U	1	
C257-69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	13	
C290	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C300,01	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C302-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C370-73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C374	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C375,76	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C377	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C378	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C379	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C380-92	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	13	
C450	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C452	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C457-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C500-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	11	
C511	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C550	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C551	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C552-57	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C558	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C559	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C561-81	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	21	
C650,51	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C652	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C653	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C654-58	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C659	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C660,61	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C662,63	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C664,65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C670	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D150,51	MA3J14300L	DIODE	2	
D650	LN1271RAL	DIODE	1	
FL500,01	EZAST33AAAJ	FILTER	2	
IC1,C2	C0CBABD00005	IC	2	
IC3	DS90CR217MTD	IC	1	C0ZBZ0000466

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4	DS90CR218MTD	IC	1	C0ZBZ0000468
IC5	C0CBAAD00023	IC	1	
IC50,51	C3HBKG000002	IC	2	
IC52	C3HBKZ000001	IC	1	
IC53	C1ZBZ0002371	IC	1	
IC100	C1AB00001751	IC	1	
IC101,02	C3HBKZ000001	IC	2	
IC150	MB87J1460	IC	1	C1AB00001232
IC151,52	C3ABQG000045	IC	2	
IC153	C0JBAZ000279	IC	1	
IC154	C0CBBDB00004	IC	1	
IC155	C0CBADD00003	IC	1	
IC156	C0ABEB000017	IC	1	
IC157,58	C0JBAZ001958	IC	2	
IC200	L7A1644	IC	1	C1AA00000231
IC201,02	MN47V07AF	IC	2	
IC250,51	MN673797A	IC	2	
IC252	BH7086KV	IC	1	C1ZBZ0001649
IC253	C0JBAB000422	IC	1	
IC254	C0JBAB000350	IC	1	
IC300	C1ZBZ0002371	IC	1	
IC370	C0CBABD00005	IC	1	
IC371	C3ABRG000011	IC	1	
IC372	H1ZYYYYB0004	IC	1	
IC373	C1AB00001590	IC	1	
IC450	C1ZBZ0002212	IC	1	
IC500	C1AB00001589	IC	1	
IC550	C0CBABD00005	IC	1	
IC551	C1ZBZ0002212	IC	1	
IC552	DS90LV047AC	IC	1	
IC553,54	DS90LV048AC	IC	2	
IC555	XC62FP3202P	IC	1	
IC556	C0CBABD00005	IC	1	
IC557	C0JBAZ002080	IC	1	
IC558-60	DS90LV048AC	IC	3	
IC561	DS90LV047AC	IC	1	
IC562	C0JBAZ001958	IC	1	
IC652	C2DBML000004	IC	1	
IC660	C3FBLD000046	IC	1	
ID0	VVVSI4279B	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4284D	SOFTWARE	1	DOWNLOAD ONLY
ID2	VVVSI4285B	SOFTWARE	1	DOWNLOAD ONLY
ID3	VVVSI4233A	SOFTWARE	1	DOWNLOAD ONLY
L1-L6	VLP0183	COIL	6	J0JKC0000007
L250	VLQ0319K150	COIL 15UH	1	G1C150KA0002
L650,51	VLQ0163J470	COIL 47UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	K1KA08B00147	CONNECTOR (FEMALE)	1	
P300	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A00020
P650	K1KA10A00303	CONNECTOR (MALE)	1	
P651	VJS3791B020	CONNECTOR (FEMALE)	1	
QR650	UNR521300L	TRANSISTOR	1	
R1-R4	ERJ3RBD101	M.RESISTOR CH 1/16W 100	4	
R5,R6	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R7	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R8	EXBV8V102J	COMBI.R-R 1K	1	
R14	EXBV8V101J	COMBI.R-R 100	1	
R50-52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R53	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R54-61	D1H833040002	COMBI.R-R 33	8	
R62,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R64	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R66	D1H833040002	COMBI.R-R 33	1	
R67	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R68,69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R71-73	D1H833040002	COMBI.R-R 33	3	
R76	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R77-82	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	6	
R84-86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R87-89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R90-93	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R100,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R104-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R110-15	D1H833040002	COMBI.R-R 33	6	
R116,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R150	D1H833040002	COMBI.R-R 33	1	
R151-55	EXBV8V102J	COMBI.R-R 1K	5	
R156,57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R158,59	D1H833040002	COMBI.R-R 33	2	
R160	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R161	D1H833040002	COMBI.R-R 33	1	
R162,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R164,65	EXBV8V101J	COMBI.R-R 100	2	
R166	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R167	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R168	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R169	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R170-72	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R173	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R174	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R175,76	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R177	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R178,79	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R180	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R181	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R182	VLP0173	COIL	1	J0JGC0000015
R183-86	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R200	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R201	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R202,03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R204	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R205	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R206	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R207,08	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R209,10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R211	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R212	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R213	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R215	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R250,51	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R252-55	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R256	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R257	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R258	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R259	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R260	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R261	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R262	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R263	D1H833040002	COMBI.R-R 33	1	
R264	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R265	D1H833040002	COMBI.R-R 33	1	
R267	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R268	D1H833040002	COMBI.R-R 33	1	
R269,70	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R271,72	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R273,74	D1H833040002	COMBI.R-R 33	2	
R275,76	EXBV8V101J	COMBI.R-R 100	2	
R277-81	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	D0GB103JA002
R282,83	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R284	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R285	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R286,87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R288,89	D1H833040002	COMBI.R-R 33	2	
R290,91	EXBV8V101J	COMBI.R-R 100	2	
R292	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R293-96	EXBV8V102J	COMBI.R-R 1K	4	
R300	EXBV8V101J	COMBI.R-R 100	1	
R301,02	D1H833040002	COMBI.R-R 33	2	
R303	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R304,05	D1H833040002	COMBI.R-R 33	2	
R306	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R307	EXBV8V101J	COMBI.R-R 100	1	
R308,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R310,11	D1H833040002	COMBI.R-R 33	2	
R328-32	D1H833040002	COMBI.R-R 33	5	
R333	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R334-37	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R338-41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R354-57	D1H833040002	COMBI.R-R 33	4	
R358	EXBV8V102J	COMBI.R-R 1K	1	
R359-62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R363-65	D1H833040002	COMBI.R-R 33	3	
R366-69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R370	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R371	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R372	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R373-75	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R376	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R377,78	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R381	EXBV8V473J	COMBI.R-R 47K	1	
R382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R383	EXBV8V101J	COMBI.R-R 100	1	
R384	EXBV8V473J	COMBI.R-R 47K	1	
R385	EXBV8V102J	COMBI.R-R 1K	1	
R386	EXBV8V473J	COMBI.R-R 47K	1	
R387	EXBV8V102J	COMBI.R-R 1K	1	
R388	EXBV8V473J	COMBI.R-R 47K	1	
R389	EXBV8V102J	COMBI.R-R 1K	1	
R390	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R391,92	D1H833040002	COMBI.R-R 33	2	
R393	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R394	EXBV8V101J	COMBI.R-R 100	1	
R396-00	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	5	
R401-04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R405	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R406	EXBV8V102J	COMBI.R-R 1K	1	
R407-11	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	5	
R412-15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R416-21	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	6	
R422-25	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R426	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R428,29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R452	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R500	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R501,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R503	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R554	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R555,56	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R558,59	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R562,63	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R566	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R567	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R569	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R571	VLP0173	COIL	1	J0JGC0000015
R575	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R577-79	D1H833040002	COMBI.R-R 33	3	
R580-89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	10	
R590,91	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R592-01	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	10	
R603,04	D1H833040002	COMBI.R-R 33	2	
R608	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R611	VLP0173	COIL	1	J0JGC0000015
R612	EXBV8V102J	COMBI.R-R 1K	1	
R613,14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R615,16	D1H833040002	COMBI.R-R 33	2	
R617	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R618	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R619	D1H833040002	COMBI.R-R 33	1	
R620,21	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R622,23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R624	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R625	D1H833040002	COMBI.R-R 33	1	
R626	EXBV8V102J	COMBI.R-R 1K	1	
R627	D1H833040002	COMBI.R-R 33	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R628-30	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R631	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R634,35	D1H833040002	COMBI.R-R 33	2	
R636,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R640	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R641	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R650	EXBV8V102J	COMBI.R-R 1K	1	
R651	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R652	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R653	D1H833040002	COMBI.R-R 33	1	
R654	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R655	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R656	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R657	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R658	D1H833040002	COMBI.R-R 33	1	
R659	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R660,61	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R662	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R663	D1H833040002	COMBI.R-R 33	1	
R664	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R665	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R666	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R667	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R668	D1H833040002	COMBI.R-R 33	1	
R670	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R671	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R672,73	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R674	EXBV8V102J	COMBI.R-R 1K	1	
R676	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R678,79	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R680	EXBV8V473J	COMBI.R-R 47K	1	
R681,82	D1H833040002	COMBI.R-R 33	2	
R684	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
TG1-G7	EYF6CU	TEST POINT	7	
TP50,51	EYF6CU	TEST POINT	2	
TP250,51	EYF6CU	TEST POINT	2	
TP302	EYF6CU	TEST POINT	1	
TP304	EYF6CU	TEST POINT	1	
TP370,71	EYF6CU	TEST POINT	2	
TP378	EYF6CU	TEST POINT	1	
TP381	EYF6CU	TEST POINT	1	
TP450	EYF6CU	TEST POINT	1	
TP507,08	EYF6CU	TEST POINT	2	
X150	VSX0907	CRYSTAL OSCILLATOR	1	H4G1805A0003
X550	H1A3715B0001	CRYSTAL OSCILLATOR	1	
X551	H1A3705B0001	CRYSTAL OSCILLATOR	1	
X650	H0J921400004	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E2	VEP83625B	V OUT SYS P.C.BOARD	1	(RTL)
C1-C5	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C6-13	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	8	
C30,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C32	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C33	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C34	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C35-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	19	
C54	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C55,56	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C57	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C150,51	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C152-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C155,56	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C157-68	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C230-47	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	18	
C300-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C304,05	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C306-08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C309	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C310	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C311-19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C320-22	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	3	
C327	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C329	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C331	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C332-40	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C341-43	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	3	
C344-46	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C347-51	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	5	
C352-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C355	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C356	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C357	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C358	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C359	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C360	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C361	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C362	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C363	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C364,65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C430,31	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C432,33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C434	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C435-39	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C440	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C441	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C442	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C443	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C444	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C445	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
C446	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
C447	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C449	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C450-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C454	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C500,01	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C502,03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C504	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C506,07	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C508	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C509,10	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C511	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C512	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C513,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C515	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C518	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C519	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C520,21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C522,23	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C524-31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C535	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C600-02	VCK0152	C.CAPACITOR CH 16V 10U	3	F1L1C1060016
C603-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C607	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C608-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C615	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C616	VCK0152	C.CAPACITOR CH 16V 10U	1	F1L1C1060016
C617-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C621	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C622	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	F1J1H561A025
C623	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C624	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C625	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C626	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C627	VCK0152	C.CAPACITOR CH 16V 10U	1	F1L1C1060016
C628	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C629	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C630-33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C634	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C635	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D430	MA142K	DIODE	1	
D500-03	MA3J14300L	DIODE	4	
D505-07	MA3J14300L	DIODE	3	
D508	LN1271RAL	DIODE	1	
D509	MA3J14300L	DIODE	1	
D600-05	MA3J14300L	DIODE	6	
FL300-02	J0E3005B0002	FILTER	3	
FL430	VLF1354	FILTER	1	
IC30	C1ZBZ0002319	IC	1	
IC31	IDTLVC16245F	IC	1	
IC33	IDTLVC16245F	IC	1	
IC36	C0JBAZ001880	IC	1	
IC37	C0CBABD00005	IC	1	
IC38	DS90CR218MTD	IC	1	C0ZBZ0000468
IC39	DS90LV048AC	IC	1	
IC40,41	C3ABQG000045	IC	2	
IC42	C0JBAZ001880	IC	1	
IC45	C3ABQG000045	IC	1	
IC150	C1ZBZ0002432	IC	1	
IC154	DS90CR217MTD	IC	1	C0ZBZ0000466
IC230	C1ZBZ0002432	IC	1	
IC232,33	C3ABRG000011	IC	2	
IC236	C1AB00001228	IC	1	
IC300,01	C0CBAAD00023	IC	2	
IC302	C1AB00001858	IC	1	
IC303-05	AD8055AR	IC	3	C0ABGB000013
IC306	LT1129CS8	IC	1	
IC307	LT1175CS8	IC	1	
IC308,09	TC7W53FU	IC	2	
IC310	ADV7128KR80	IC	1	
IC311	AD589JR	IC	1	
IC312	LT1129CS8	IC	1	
IC313	AD8184AR	IC	1	
IC430	C0JBAA000175	IC	1	
IC431	ADV7128KR80	IC	1	
IC432	AD589JR	IC	1	
IC433	AD8055AR	IC	1	C0ABGB000013
IC434	NJM2534V	IC	1	
IC500	C2DBML000004	IC	1	
IC501	C0EBE0000213	IC	1	
IC502	C0JBAA000174	IC	1	
IC503	C0JBAZ000851	IC	1	
IC504	C0JBAB000350	IC	1	
IC600	C3FBMD000050	IC	1	
IC601	TA75W558FU	IC	1	C0ABBA000042
IC602	C0JBAZ001713	IC	1	
IC604,05	TC7WH125FU	IC	2	
IC606	C0BBBB000006	IC	1	
IC610	C0CBADD00003	IC	1	
IC611	C1AB00000936	IC	1	
IC613	TC7WH125FU	IC	1	
IC614	C0JBAZ001121	IC	1	
IC617	TC7WH125FU	IC	1	
IC619	C0JBAZ001121	IC	1	
IC621	NJM2068MD	IC	1	C0ABBB000031
IC623	C0CBADD00003	IC	1	
IC628	SN75C1168NS	IC	1	
IC629	XC62DN5002M	IC	1	
ID0	VVVSI4280B	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4286D	SOFTWARE	1	DOWNLOAD ONLY
ID2	VVVSI4233A	SOFTWARE	1	DOWNLOAD ONLY
L1-L5	VLP0183	COIL	5	J0JKC0000007

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L311-14	VLQ0319K1R0	COIL 1.0UH	4	
L430	VLQ0163J180	COIL 18UH	1	G1C180J00001
L431	VLQ0163J120	COIL 12UH	1	G1C120J00001
L500,01	VLQ0163J470	COIL 47UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P150	VJS4064N160E	CONNECTOR (FEMALE)	1	K1KAG0A00006
P500	K1KA10A00303	CONNECTOR (MALE)	1	
P501	VJS3791B020	CONNECTOR (FEMALE)	1	
Q300-02	2SA1532-B	TRANSISTOR	3	
Q303-05	2SD601A-R	TRANSISTOR	3	
Q306-08	XN4501	TRANSISTOR-RESISTOR	3	
Q430	2SA1532-B	TRANSISTOR	1	
Q431	2SD601A-R	TRANSISTOR	1	
Q432	XN4501	TRANSISTOR-RESISTOR	1	
Q433-36	2SA1532-B	TRANSISTOR	4	
Q437	2SD601A-R	TRANSISTOR	1	
QR500-03	UNR521300L	TRANSISTOR	4	
R1	EXBV8V102J	COMBI.R-R 1K	1	
R30-35	D1H833040002	COMBI.R-R 33	6	
R36-46	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	11	
R47,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R49,50	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R52-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R57	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R59,60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R62,63	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R64	D1H833040002	COMBI.R-R 33	1	
R65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R66,67	D1H833040002	COMBI.R-R 33	2	
R68	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R69-72	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R73-76	D1H833040002	COMBI.R-R 33	4	
R77	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R78,79	D1H833040002	COMBI.R-R 33	2	
R80,81	EXBV8V102J	COMBI.R-R 1K	2	
R82	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R83,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R85,86	D1H833040002	COMBI.R-R 33	2	
R87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R90-93	ERJ3RBD101	M.RESISTOR CH 1/16W 100	4	
R94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R95,96	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R99	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R100	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R101,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R103,04	D1H833040002	COMBI.R-R 33	2	
R106-09	D1H833040002	COMBI.R-R 33	4	
R110	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R111	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R113	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R114	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R120	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R150-52	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R153	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R154-56	D1H833040002	COMBI.R-R 33	3	
R157,58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R159-63	D1H833040002	COMBI.R-R 33	5	
R164	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R165-69	D1H833040002	COMBI.R-R 33	5	
R170	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R171	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R177-79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R185,86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R187	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R188	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R190-92	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R193	D1H833040002	COMBI.R-R 33	1	
R230-32	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R233	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R234,35	D1H833040002	COMBI.R-R 33	2	
R236	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R237,38	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R239,40	D1H833040002	COMBI.R-R 33	2	
R241,42	EXBV8V102J	COMBI.R-R 1K	2	
R243-47	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R248,49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R250	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R251	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R252	D1H833040002	COMBI.R-R 33	1	
R253-57	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R258	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R300	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R301-04	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R306,07	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R310,11	ERJ3RBD331	M.RESISTOR CH 1/16W 330	2	
R312	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R313,14	ERJ3RED100	M.RESISTOR CH 1/16W 10	2	
R315-17	ERJ3RBD301	M.RESISTOR CH 1/16W 300	3	
R321-23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R324-26	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R327	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R328,29	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R330	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R331	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R332	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R333	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R334	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R335-38	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	4	
R339-41	ERJ3RBD241	M.RESISTOR CH 1/16W 240	3	
R342-44	ERJ3RED910	M.RESISTOR CH 1/16W 91	3	
R345	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R347	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R349	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R351	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R352	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R353	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R354	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R355	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R356	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R357	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R358	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R359	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R360-62	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	3	
R375-77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R378,79	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	2	
R380	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R382	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R383	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R384	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R385	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R386	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R387	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R430,31	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R432	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R433	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R434	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R435	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R436,37	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R438	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R439	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R440	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R441	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R442	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R443	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R444	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R445	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R446	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R447	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R448	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R449	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R450	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R451	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R454	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R457,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R459	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R460	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R461	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R462,63	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R464	ERJ3RED300	M.RESISTOR CH 1/16W 30	1	
R465	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R466	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R468	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R469	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R470	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R500	D0GZ103J0001	M.RESISTOR CH 10K	1	
R501	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R502	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R503	D1H833040002	COMBI.R-R 33	1	
R504	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R505	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R506-11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R513	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R515	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R516	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R517	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R518	D1H833040002	COMBI.R-R 33	1	
R519-22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R524	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R525	D0GZ103J0001	M.RESISTOR CH 10K	1	
R526	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R527	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R528	D1H833040002	COMBI.R-R 33	1	
R529	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R530,31	D1H833040002	COMBI.R-R 33	2	
R532	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R533	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R534,35	D1H833040002	COMBI.R-R 33	2	
R537	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R538	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R539	D1H833040002	COMBI.R-R 33	1	
R543-47	D1H833040002	COMBI.R-R 33	5	
R548,49	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R550	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R551	EXBV8V102J	COMBI.R-R 1K	1	
R552	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R553-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R559,60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R561	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R562	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R563	EXBV8V473J	COMBI.R-R 47K	1	
R564	D1H833040002	COMBI.R-R 33	1	
R565	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R566	D1H833040002	COMBI.R-R 33	1	
R567	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R568	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R569	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R570	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R571,72	D0GZ103J0001	M.RESISTOR CH 10K	2	
R573	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R600	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R601	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R602	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R603	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R604	EXBV8V473J	COMBI.R-R 47K	1	
R605	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R606	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R607	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609,10	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R611	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R612,13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R614	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R615	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R616	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R617	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R618,19	EXBV8V473J	COMBI.R-R 47K	2	
R621	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R622	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R623	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R625	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R626	D1H833040002	COMBI.R-R 33	1	
R627	EXBV8V473J	COMBI.R-R 47K	1	
R628	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R629,30	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R632	D1H833040002	COMBI.R-R 33	1	
R633	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R634	EXBV8V473J	COMBI.R-R 47K	1	
R635,36	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R637	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R638	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R639	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R640	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R641	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R642	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R643	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R644	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R645	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R646	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R647	D1H833040002	COMBI.R-R 33	1	
R648	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R649	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R650	EXBV8V102J	COMBI.R-R 1K	1	
R651	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R652	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R653	EXBV8V473J	COMBI.R-R 47K	1	
R654	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R655	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R656-59	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R660-62	D1H833040002	COMBI.R-R 33	3	
R663,64	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
RY1	VSY2176	RELAY	1	K6B2CDA00045
SW1	VSS0367-02B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
VR300-07	EVM7JGA00B13	V.RESISTOR 1K	8	
VR430,31	EVM7JGA00B13	V.RESISTOR 1K	2	
X500	H0J921400004	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E4	VEP85214B	RF/EQ P.C.BOARD	1	(RTL)
C1-C4	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C6	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C7	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C8-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C101,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C103-06	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C108	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C110-22	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	13	
C123-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C201,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C205-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C211,12	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C213,14	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	2	
C215	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C301-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C311	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C312,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C315-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C319	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C320	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C321	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C322	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C323	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C324	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C325	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C326-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C351,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C353	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C354	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C355	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C356	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C359	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C361-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C401-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C411	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C412,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C415-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C419	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C420	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C421	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C422	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C423	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C424	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C425	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C426-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C451,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C453	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C454	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C455	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C456	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C459	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C461-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C501-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C511	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C512,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C515-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C519	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C520	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C521	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C522	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C523	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C524	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C525	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C527-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C551-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C561	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C562,63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C565-68	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C569	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C570	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C571	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C572	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C573	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C574	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C575	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C577-80	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C601-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C611	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C612,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C615-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C619	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C620	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C621	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C622	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C623	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C624	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C625	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C627-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C701	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C702	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C703-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C708-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C711	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C731	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C732	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C733-36	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C738-40	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C741	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C761	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C762	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C763-66	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C768-70	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C771	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C801	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C802	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C803-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C806	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C807-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C819	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C820-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C826	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C827-31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C834,35	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C836	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C837,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C901	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C902	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C903-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C906	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C907-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C919	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C920-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C926	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C928	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C930,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C935	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C937,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C939,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C941,42	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1001	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1002	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1003-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1006	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1007-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C1019	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1020-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C1026	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1028	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1030,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1035	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1037,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1101	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1102	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1103-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1106	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1107-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C1119	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1120-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1126	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1128	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1130,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1135	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1137,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1139,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1201	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1202	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1203-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1206	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1207-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1219	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1220-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C1226	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1228	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1230,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1235	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1237,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1239,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1301-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C1311-13	F1L1A2260013	C.CAPACITOR CH 10V 22U	3	
C1314	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C1315	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
C1317-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1321	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
C1323,24	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C1325	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1327-29	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1330	EEFCD0J330R	E.CAPACITOR 6.3V 33U	1	
C1331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D1	MA3J14300L	DIODE	1	
D301	MA3S132E0L	DIODE	1	
D401	MA3S132E0L	DIODE	1	
D501	MA3S132E0L	DIODE	1	
D551	MA3S132E0L	DIODE	1	
D601	MA3S132E0L	DIODE	1	
D1301	MA142K	DIODE	1	
D1302	MA29W-A	DIODE	1	MA2C029WA
IC1	C0JBAA000102	IC	1	
IC2	C0JBAZ000525	IC	1	
IC3	TVHC244FT	IC	1	
IC4,C5	TVHC164FT	IC	2	
IC6	TVHC126FT	IC	1	
IC7	TC74VHC32F	IC	1	C0JBAE000081
IC8	C0JBAB000196	IC	1	
IC9	TVHC00FT	IC	1	
IC101,02	C0JBAS000075	IC	2	
IC103	C0ABEB000023	IC	1	
IC104	M62370GP	IC	1	C0FBBD000082
IC105-07	C0ABFB000012	IC	3	
IC201	TVHC126FT	IC	1	
IC202	DS90LV048AC	IC	1	
IC203	TLCX04F	IC	1	
IC204	C0JBAF000224	IC	1	
IC206	DS90LV047AC	IC	1	
IC301	NJM1496V	IC	1	
IC302	UPC1663GV	IC	1	C0ABAB000078
IC303	C0JBAS000075	IC	1	
IC351	UPC1663GV	IC	1	C0ABAB000078
IC401	NJM1496V	IC	1	
IC402	UPC1663GV	IC	1	C0ABAB000078
IC403	C0JBAS000075	IC	1	
IC451	UPC1663GV	IC	1	C0ABAB000078
IC501	NJM1496V	IC	1	
IC502	UPC1663GV	IC	1	C0ABAB000078
IC551	NJM1496V	IC	1	
IC552	UPC1663GV	IC	1	C0ABAB000078
IC601	NJM1496V	IC	1	
IC602	UPC1663GV	IC	1	C0ABAB000078
IC701	UPC1663GV	IC	1	C0ABAB000078
IC731	UPC1663GV	IC	1	C0ABAB000078
IC761	UPC1663GV	IC	1	C0ABAB000078
IC801	MN673798	IC	1	
IC802	C0ABBB000158	IC	1	
IC803	DS90LV047AC	IC	1	
IC804	C0JBAF000315	IC	1	
IC805,06	C0JBAZ000852	IC	2	
IC901	MN673798	IC	1	
IC902	C0ABBB000158	IC	1	
IC904	C0ABFB000012	IC	1	
IC1001	MN673798	IC	1	
IC1002	C0ABBB000158	IC	1	
IC1003	DS90LV047AC	IC	1	
IC1101	MN673798	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1102	C0ABBB000158	IC	1	
IC1201	MN673798	IC	1	
IC1202	C0ABBB000158	IC	1	
IC1203	DS90LV047AC	IC	1	
IC1301	LT1175CS8	IC	1	
IC1303	LT1086CM	IC	1	C0CBAYG00001
IC1304,05	C0CBADD00003	IC	2	
L301	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L302	VLQ0163JR68	COIL 0.68UH	1	G1CR68J00004
L351	VLQ0163J8R2	COIL 8.2UH	1	
L352	VLQ0163J2R2	COIL 2.2UH	1	G1C2R2J00009
L353	VLQ0163J1R5	COIL 1.5UH	1	
L354	VLQ077168NM	COIL	1	
L401	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L402	VLQ0163JR68	COIL 0.68UH	1	G1CR68J00004
L451	VLQ0163J8R2	COIL 8.2UH	1	
L452	VLQ0163J2R2	COIL 2.2UH	1	G1C2R2J00009
L453	VLQ0163J1R5	COIL 1.5UH	1	
L454	VLQ077168NM	COIL	1	
L501	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L502	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L551	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L552	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L601	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L602	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L701	VLQ0163J5R6	COIL 5.6UH	1	
L731	VLQ0163J5R6	COIL 5.6UH	1	
L761	VLQ0163J5R6	COIL 5.6UH	1	
L1301-05	VLP0183	COIL	5	J0JKC0000007
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	VJS3791B020	CONNECTOR (FEMALE)	1	
P4	K1KA08B00147	CONNECTOR (FEMALE)	1	
Q1	2SB1218A0L	TRANSISTOR	1	
Q2	2SD1819A-R	TRANSISTOR	1	
Q3	XP0431200L	TRANSISTOR	1	
Q201,02	2SC3930	TRANSISTOR	2	
Q203,04	2SD601A	TRANSISTOR	2	
Q205,06	2SB1218A0L	TRANSISTOR	2	
Q301	XP6534	TRANSISTOR-RESISTOR	1	
Q302	2SC3930	TRANSISTOR	1	
Q303	XP6501	TRANSISTOR-RESISTOR	1	
Q304,05	2SD1979	TRANSISTOR	2	
Q306,07	2SC3930	TRANSISTOR	2	
Q351	XP6534	TRANSISTOR-RESISTOR	1	
Q401	XP6534	TRANSISTOR-RESISTOR	1	
Q402	2SC3930	TRANSISTOR	1	
Q403	XP6501	TRANSISTOR-RESISTOR	1	
Q404,05	2SD1979	TRANSISTOR	2	
Q406,07	2SC3930	TRANSISTOR	2	
Q451	XP6534	TRANSISTOR-RESISTOR	1	
Q501	XP6534	TRANSISTOR-RESISTOR	1	
Q502	2SC3930	TRANSISTOR	1	
Q503	XP6501	TRANSISTOR-RESISTOR	1	
Q504,05	2SD1979	TRANSISTOR	2	
Q506,07	2SC3930	TRANSISTOR	2	
Q551	XP6534	TRANSISTOR-RESISTOR	1	
Q552	2SC3930	TRANSISTOR	1	
Q553	XP6501	TRANSISTOR-RESISTOR	1	
Q554,55	2SD1979	TRANSISTOR	2	
Q556,57	2SC3930	TRANSISTOR	2	
Q601	XP6534	TRANSISTOR-RESISTOR	1	
Q602	2SC3930	TRANSISTOR	1	
Q603	XP6501	TRANSISTOR-RESISTOR	1	
Q604,05	2SD1979	TRANSISTOR	2	
Q606,07	2SC3930	TRANSISTOR	2	
Q701	2SC3930	TRANSISTOR	1	
Q702	2SA153200L	TRANSISTOR	1	
Q703	2SD1979	TRANSISTOR	1	
Q731	2SC3930	TRANSISTOR	1	
Q732	2SA153200L	TRANSISTOR	1	
Q733	2SD1979	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q761	2SC3930	TRANSISTOR	1	
Q762	2SA153200L	TRANSISTOR	1	
Q763	2SD1979	TRANSISTOR	1	
Q801	XP0450100L	TRANSISTOR	1	
Q802	2SD1819A-R	TRANSISTOR	1	
Q803	2SB1218A0L	TRANSISTOR	1	
Q901	XP0450100L	TRANSISTOR	1	
Q1001	XP0450100L	TRANSISTOR	1	
Q1101	XP0450100L	TRANSISTOR	1	
Q1201	XP0450100L	TRANSISTOR	1	
Q1301-03	2SB710A	TRANSISTOR	3	
Q1304-06	2SD602A-R	TRANSISTOR	3	
Q1307	2SD601A	TRANSISTOR	1	
QR351,52	UN5212	TRANSISTOR-RESISTOR	2	
QR1302-04	UNR511100L	TRANSISTOR	3	
QR1305-07	UNR521100L	TRANSISTOR	3	
QR1308-10	UNR511100L	TRANSISTOR	3	
R1-R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4,R5	EXBV8V473J	COMBI.R-R 47K	2	
R6	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R7,R8	EXBV8V101J	COMBI.R-R 100	2	
R9	EXBV8V473J	COMBI.R-R 47K	1	
R10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R11	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R12	EXBV8V473J	COMBI.R-R 47K	1	
R13	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R15	EXBV8V473J	COMBI.R-R 47K	1	
R16-18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R19,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R22,23	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R25	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R26	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R27-34	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	8	
R101-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R104,05	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R106	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R107	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R108-10	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	3	
R112	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R114-26	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	13	
R127,28	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R129,30	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R131,32	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R133	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R134	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R135	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R136	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R137-39	D0GB123JA002	M.RESISTOR CH 1/16W 12K	3	
R140-42	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	3	
R143	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R144	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R145	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R146	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R147	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R148-54	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	7	
R155-58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R159,60	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R161,62	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R163,64	D0GB123JA002	M.RESISTOR CH 1/16W 12K	2	
R165	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R166	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R167	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R168	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R169-71	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	3	
R172	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R173	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R174	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R175-80	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	6	
R181-84	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R202,03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R205-07	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R208-11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R212,13	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R214,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R216-18	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R219	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R220	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R221	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R222-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R225,26	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R227,28	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R229,30	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R231,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R233,34	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R301,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R303,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R305,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R307	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R309,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R311	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R312	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R314	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R315	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R316	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R317	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R318	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R319,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R321,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R323	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R327	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R328,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R330	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R331	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R332	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R333	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R334-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R337	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R351,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R353	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R354	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R357	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R358	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R359	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R360	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R361	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R362	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R363	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R365	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R366	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R367	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R370,71	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R403,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R405,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R407	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R408	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R409,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R411	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R412	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R413	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R414	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R415	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R416	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R417	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R418	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R419,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R421,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R423	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R424,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R426	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R427	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R428,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R430	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R432	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R433	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R434-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R437	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R451,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R453	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R454	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R457	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R458	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R459	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R460	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R461	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R462	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R464	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R465	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R467	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R470	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R501,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R503,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R505,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R507	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R508	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R509,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R511	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R512	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R513	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R514	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R515	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R516	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R517	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R518	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R519,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R521,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R523	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R527	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R528,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R530	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R532	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R533	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R534-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R537	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R551,52	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R553,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R555,56	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R557	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R558	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R559,60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R561	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R562	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R563	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R564	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R565	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R566	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R567	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R568	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R569,70	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R571,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R573	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R574,75	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R576	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R577	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R578,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R580	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R582	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R583	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R584-86	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R587	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R601,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R603,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R605,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R607	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R608	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R609,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R611	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R612	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R613	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R614	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R615	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R616	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R617	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R618	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R619,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R621,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R623	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R624,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R626	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R627	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R628,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R630	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R632	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R633	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R634-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R637	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R701	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R702	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R703	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R704	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R705	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R706	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R707	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R708	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R709	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R710	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R711	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R712	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R713	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R716	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R717	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R731	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R732	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R733	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R734	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R735	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R736	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R737	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R738	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R739	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R740	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R741	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R742	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R743	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R746	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R747	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R761	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R762	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R763	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R764	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R765	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R766	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R767	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R768	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R769	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R770	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R771	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R772	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R773	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R776	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R777	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R801	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R802	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R803	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R804	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R805	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R806	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R807	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R811	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R812	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R813	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R818,19	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R820	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R826	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R827	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R828	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R829	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R832	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R833,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R835	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R836	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R837	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R838	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R839	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R840	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R841	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R842	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R843	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R844	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R845	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R846	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R847	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R848	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R849	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R850	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R851-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R855	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R856	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R857	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R858	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R859	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R860	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R861	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R901	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R902	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R903	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R905	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R906	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R907	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R911	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R912	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R920	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R926	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R927	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R928	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R929	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R933,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R935	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R936	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R938	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R950	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R951-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R957	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R959	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R960	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R961	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R962,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R964	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R965	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1002	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1003	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1004	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1005	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1007	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1011	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1012	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1013,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1017	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1018,19	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R1020	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1026	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1027	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1028	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1029	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1033,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1035	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1036	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1038	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1049	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1050	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1051-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1057	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1059	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1060	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1061	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1101	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1102	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1103	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1105	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1106	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1107	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1111	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1112	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1113,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1117	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1120	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1126	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1127	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1128	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1129	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1133,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1135	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1136	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1138	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1150	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1151-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1157	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1159	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1160	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1161	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1162,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1164	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R1165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1201	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1202	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1203	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1204	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1205	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1206	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1207	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1211	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1212	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1213,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1216	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1220	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1222-24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1226	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1227	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1228	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1233,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1235	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1236	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1238	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1249	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1250	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1251-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1257	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1259	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1260	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1261	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1262,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1264	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R1265	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1301	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1302	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R1303	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R1304-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R1307-12	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	6	
R1319-24	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	6	
R1325-27	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R1328-31	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R1332,33	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R1334	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
RY1301	VSY2176	RELAY	1	K6B2CDA00045
SW201,02	VJP2536A003	CONNECTOR (MALE)	2	
TG1,G2	VJR0646	TEST POINT	2	D0X0R0000022
TP1-P7	EYF6CU	TEST POINT	7	
TP101-05	EYF6CU	TEST POINT	5	
TP201-05	EYF6CU	TEST POINT	5	
TP302	EYF6CU	TEST POINT	1	
TP304,05	EYF6CU	TEST POINT	2	
TP402	EYF6CU	TEST POINT	1	
TP404,05	EYF6CU	TEST POINT	2	
TP801,02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	8	
	XYN2+J6	SCREW	2	
	VWZ0212	THERMAL CONDUCTIVE TUBE	5	
	VMP6464	HEAT SINK HOLDER ANGLE A	1	
	VMP6465	HEAT SINK HOLDER ANGLE B	2	
	VSC4609	SHIELD CASE	5	
	VJS1990	CONNECTOR (FEMALE)	2	
■ E5	VEP85215A	RF/CUE P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3,C4	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C5	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C7	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C8,C9	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C10-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C14	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C15,16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C17	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C18,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C20	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C21,22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C101,02	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C103,04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C106	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C107	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C108	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C109	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C110	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C111	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C112	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C113-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C116	EEFCD1C4R7R	E.CAPACITOR 16V 4.7U	1	
C117	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C171,72	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C173,74	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C176	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C177	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C178	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C179	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C180	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C181	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C182	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C183-90	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C251,52	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C253,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C256	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C257	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C258	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C259	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C260	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C261	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C262	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C263-65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C266	EEFCD1C4R7R	E.CAPACITOR 16V 4.7U	1	
C267	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C321,22	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C323,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C326	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C327	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C328	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C329	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C330	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C332	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C333,34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C339-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C401-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C405-08	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C409-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C417	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C420	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C421	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C422,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C431-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C435-38	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C439-45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C447	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C450	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C461-64	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C465-68	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C469-75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C477	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C480	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C481	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C482	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C483	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
C484	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C501-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C505-08	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C509-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C517	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C520	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C521	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C522,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C531-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C535-38	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C539-45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C547	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C550	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C561	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C562,63	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C580	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C581	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C582,83	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C601-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C606,07	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C608	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C609,10	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C611-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C616,17	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C618,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C620	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C4002	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4003	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4004	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4005	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4006	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4007	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4008	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4009,10	F1L2J682A010	C.CAPACITOR CH100V 1P	2	
C4011	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4012	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4013	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4014	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4015	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4016,17	F1L2J682A010	C.CAPACITOR CH100V 1P	2	
C4018	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4020	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4021	ECHU1C822JB	P.CAPACITOR 16V 8200P	1	
C4022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4023	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4024	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4026	F1K2J271A014	C.CAPACITOR CH 10V 270P	1	
C4027	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4028	EEVHP0J470	E.CAPACITOR 6.3V 47U	1	
C4029	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C4030,31	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4032	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4033	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4103,04	ECUX1C394KBN	C.CAPACITOR CH 16V 0.39U	2	
C4105,06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4107-09	ECHU1C104J	P.CAPACITOR 16V 0.1U	3	
C4110,11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4112	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4113,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4115	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4116	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4117	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C4118	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4119	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4121	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4122	EEVHP1E4R7	E.CAPACITOR 25V 4.7U	1	
C4123	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C4124	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4126	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4127	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4128	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4129,30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4131	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4133	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4134	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4135	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4136	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4137	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4139	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4140	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4141	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4142	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4201-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C4207,08	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4209,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4211	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4212	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4213	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4214	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4215	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4216	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4217	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4218,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4220	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4301	EEVHP1E4R7	E.CAPACITOR 25V 4.7U	1	
C4305,06	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	2	
C4308	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4309,10	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4311	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4313	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4314,15	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	2	
C4316,17	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4320-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C4325-28	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C4329	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4330	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4334	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C4338,39	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4343	ECUX1C394KBN	C.CAPACITOR CH 16V 0.39U	1	
C4344,45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4346	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4347	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D101-03	MA152WK	DIODE	3	
D171-73	MA152WK	DIODE	3	
D4001,02	MA142K	DIODE	2	
D4201	MA716	DIODE	1	
D4202	MA157A	DIODE	1	
FL4001	G2A193C00001	COIL	1	
FL4002	VLF1466B223	LINE FILTER	1	
FL4101	VLF1069	FILTER	1	G4ZZ00000278
FL4301-03	VLF1466B223	LINE FILTER	3	
IC1-C3	C0JBAB000541	IC	3	
IC4	TVHC00FT	IC	1	
IC5	C0JBAB000007	IC	1	
IC7-12	TC4S30F	IC	6	C0JBAZ000429
IC101	LT1175CS8	IC	1	
IC251	LT1175CS8	IC	1	
IC401	UPC5102GS030	IC	1	C1ZBZ0001316
IC402	UPC2726T	IC	1	
IC431	UPC5102GS030	IC	1	C1ZBZ0001316
IC432	UPC2726T	IC	1	
IC461	UPC5102GS030	IC	1	C1ZBZ0001316
IC462	UPC2726T	IC	1	
IC501	UPC5102GS030	IC	1	C1ZBZ0001316
IC502	UPC2726T	IC	1	
IC531	UPC5102GS030	IC	1	C1ZBZ0001316
IC532	UPC2726T	IC	1	
IC601,02	C0CBADD00003	IC	2	
IC4001	C0ABBB000124	IC	1	
IC4102	NJM78L09UA	IC	1	C0CBAHC00002
IC4103	C0JBAR000379	IC	1	
IC4104	TA75W558FU	IC	1	C0ABBA000042
IC4105	THC4052FT	IC	1	
IC4106	C1BB00000746	IC	1	
IC4107	C0JBAB000350	IC	1	
IC4108,09	TA75W558FU	IC	2	C0ABBA000042
IC4201	TA75W558FU	IC	1	C0ABBA000042
IC4203	C0DBZGH00001	IC	1	
IC4204	NJM79L05UA	IC	1	C0CBBDC00001
IC4205	TVHC244FT	IC	1	
IC4206	C0CBABC00049	IC	1	
IC4207	C0FBZH000011	IC	1	
IC4209	TA75W558FU	IC	1	C0ABBA000042
IC4302,03	TA75W558FU	IC	2	C0ABBA000042
IC4308	C0JBAR000379	IC	1	
IC4309	TA75W558FU	IC	1	C0ABBA000042
IC4313	TVHT244FT	IC	1	
L101,02	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L171,72	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L251,52	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L321,22	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L401	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L461	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L501	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L560,61	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L580,81	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L601-05	VLP0183	COIL	5	J0JKC0000007
L4001	VLQ0651K391	COIL 390UH	1	G1C391KA0013
L4002	VLQ0423J472	COIL 4700UH	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	VJP4064L140	CONNECTOR (MALE)	1	K1KBE0B00003
P2	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P3	VJS3900A024	CONNECTOR (FEMALE)	1	
P4	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P4001	VJP3125B009	CONNECTOR (MALE)	1	K1KA09B00055
Q1	2SA153200L	TRANSISTOR	1	
Q2	XP0431200L	TRANSISTOR	1	
Q3	XP0460100L	TRANSISTOR	1	
Q4,Q5	2SA153200L	TRANSISTOR	2	
Q6	XP0431200L	TRANSISTOR	1	
Q7-Q9	2SA153200L	TRANSISTOR	3	
Q101,02	2SC3935	TRANSISTOR	2	
Q103	XP4506	TRANSISTOR-RESISTOR	1	
Q104	2SC3935	TRANSISTOR	1	
Q106	2SC4536	TRANSISTOR	1	
Q107	2SA153200L	TRANSISTOR	1	
Q108	XP0150400L	TRANSISTOR	1	
Q109	2SK508K512	TRANSISTOR	1	
Q110	2SC4536	TRANSISTOR	1	
Q111	2SA153200L	TRANSISTOR	1	
Q112	XP0150400L	TRANSISTOR	1	
Q113	2SK508K512	TRANSISTOR	1	
Q114	2SC4536	TRANSISTOR	1	
Q116	2SC4536	TRANSISTOR	1	
Q117	2SC3935	TRANSISTOR	1	
Q171,72	2SC3935	TRANSISTOR	2	
Q173	XP4506	TRANSISTOR-RESISTOR	1	
Q174	2SC3935	TRANSISTOR	1	
Q176	2SC4536	TRANSISTOR	1	
Q177	2SA153200L	TRANSISTOR	1	
Q178	XP0150400L	TRANSISTOR	1	
Q179	2SK508K512	TRANSISTOR	1	
Q180	2SC4536	TRANSISTOR	1	
Q181	2SA153200L	TRANSISTOR	1	
Q182	XP0150400L	TRANSISTOR	1	
Q183	2SK508K512	TRANSISTOR	1	
Q184	2SC4536	TRANSISTOR	1	
Q186	2SC4536	TRANSISTOR	1	
Q187	2SC3935	TRANSISTOR	1	
Q251,52	2SC3935	TRANSISTOR	2	
Q254	2SC3935	TRANSISTOR	1	
Q256	2SC4536	TRANSISTOR	1	
Q257	2SA153200L	TRANSISTOR	1	
Q259	2SK508K512	TRANSISTOR	1	
Q260	2SC4536	TRANSISTOR	1	
Q261	2SA153200L	TRANSISTOR	1	
Q263	2SK508K512	TRANSISTOR	1	
Q264	2SC4536	TRANSISTOR	1	
Q266	2SC4536	TRANSISTOR	1	
Q267	2SC3935	TRANSISTOR	1	
Q321,22	2SC3935	TRANSISTOR	2	
Q324	2SC3935	TRANSISTOR	1	
Q326	2SC4536	TRANSISTOR	1	
Q327	2SA153200L	TRANSISTOR	1	
Q329	2SK508K512	TRANSISTOR	1	
Q330	2SC4536	TRANSISTOR	1	
Q331	2SA153200L	TRANSISTOR	1	
Q333	2SK508K512	TRANSISTOR	1	
Q334	2SC4536	TRANSISTOR	1	
Q336	2SC4536	TRANSISTOR	1	
Q337	2SC3935	TRANSISTOR	1	
Q401,02	XP4506	TRANSISTOR-RESISTOR	2	
Q403	XP6534	TRANSISTOR-RESISTOR	1	
Q405	XP6534	TRANSISTOR-RESISTOR	1	
Q431	XP4506	TRANSISTOR-RESISTOR	1	
Q435	XP6534	TRANSISTOR-RESISTOR	1	
Q461,62	XP4506	TRANSISTOR-RESISTOR	2	
Q463	XP6534	TRANSISTOR-RESISTOR	1	
Q464	XP0150400L	TRANSISTOR	1	
Q465	XP6534	TRANSISTOR-RESISTOR	1	
Q501,02	XP4506	TRANSISTOR-RESISTOR	2	
Q503	XP6534	TRANSISTOR-RESISTOR	1	
Q505	XP6534	TRANSISTOR-RESISTOR	1	
Q531	XP4506	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q535	XP6534	TRANSISTOR-RESISTOR	1	
Q560,61	2SC3735	TRANSISTOR	2	
Q580,81	2SC3735	TRANSISTOR	2	
Q601,02	2SB710A	TRANSISTOR	2	
Q4001	2SB779-R	TRANSISTOR	1	
Q4002	2SD1819A-R	TRANSISTOR	1	
Q4003	2SD874-R	TRANSISTOR	1	
Q4004	2SB779-R	TRANSISTOR	1	
Q4005	2SD1819A-R	TRANSISTOR	1	
Q4006	2SD874-R	TRANSISTOR	1	
Q4007	2SD1979	TRANSISTOR	1	
Q4008	2SB792-R	TRANSISTOR	1	
Q4009,10	2SD1149-R	TRANSISTOR	2	
Q4011,12	2SD1979	TRANSISTOR	2	
Q4201	2SD1979	TRANSISTOR	1	
QR601,02	UNR521100L	TRANSISTOR	2	
QR4001,02	UNR511300L	TRANSISTOR	2	
QR4003	UNR521300L	TRANSISTOR	1	
QR4004	UNR511300L	TRANSISTOR	1	
QR4005,06	UNR521300L	TRANSISTOR	2	
QR4007	UNR511300L	TRANSISTOR	1	
QR4201	UNR521300L	TRANSISTOR	1	
QR4202	UNR511300L	TRANSISTOR	1	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	EXBV8V473J	COMBI.R-R 47K	1	
R3,R4	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R5	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6	EXBV8V473J	COMBI.R-R 47K	1	
R7-42	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	36	D0GB103JA002
R101,02	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R103	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R104	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R105,06	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R107-09	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R110,11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R112,13	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R114-17	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	4	
R118,19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R121	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R123	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R124	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R125	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R126	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R127	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R128	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R129	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R130	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R131	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R132	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R133	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R134	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R135	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R136	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R137	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	D0GF561JA002
R138	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R140	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R141	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R142	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R143	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R145	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R146	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R149,50	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R171,72	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R173	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R174	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R175,76	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R177-79	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R180,81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R182,83	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R184-87	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	4	
R188,89	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R191	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R192	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R193	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R194	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R195	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R196	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R197	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R198	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R199	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R200	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R201	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R202	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R203	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R204	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R205	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R206	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R207	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	D0GF561JA002
R208	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R209	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R210	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R211	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R212	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R213	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R215	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R216	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R253	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R255,56	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R257,58	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R260,61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R262,63	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R268,69	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R270,71	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R272	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R273	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R274	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R275	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R276	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R277	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R279	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R280	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R281	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R282	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R283	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R284	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R285	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R287	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	D0GF561JA002
R288	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R289	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R290	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R291	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R292	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R293,94	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R295	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R296	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R299,00	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R323	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R325,26	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R327,28	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R330,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R332,33	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R338,39	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R340,41	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R342	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R343	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R344	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R345	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R346	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R347	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R349	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R350	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R351	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R352	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R353	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R355	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R357	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	D0GF561JA002
R358	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R359	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R360	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R361	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R362	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R363,64	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R365	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R366	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R369,70	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R403-06	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R407	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R408,09	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R410,11	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R412,13	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R414	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R417,18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R419,20	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R421,22	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R423,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R425,26	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R428,29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R431,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R433-36	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R437	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R438,39	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R440,41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R442,43	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R444	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R447,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R449,50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R451,52	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R453,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R455,56	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R457,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R459,60	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R461,62	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R463-66	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R468,69	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R470,71	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R472,73	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R474	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R477,78	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R479,80	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R481,82	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R483,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R485,86	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R487	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R488,89	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R490,91	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R501,02	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R503-06	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R507	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R508,09	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R510,11	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R512,13	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R514	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R517,18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R519,20	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R521,22	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R523,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R525,26	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R527	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R528,29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R531,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R533-36	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R537	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R538,39	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R540,41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R542,43	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R544	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R547,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R549,50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R551,52	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R553,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R555,56	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R560	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R561	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R562	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R563	ERJ8GEYJ270	M.RESISTOR CH 1/8W 27	1	
R564	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R565	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R580	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R581	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R582	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R583	ERJ8GEYJ270	M.RESISTOR CH 1/8W 27	1	
R584	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R585	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R601,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R605,06	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R701,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4004	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4005	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4006	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4007	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4008	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4009	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4011	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4012	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4013	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4014	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4015	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4016	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4017	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4018	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4024	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4025	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4026	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4027	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4028	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4029	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4030	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4031	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4032	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R4033	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4034	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4035	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4036	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4037,38	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4039	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4040	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4042,43	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4044	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4045	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4048	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4049	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4101,02	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4105	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4106	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4107	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4108	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R4109	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4110	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4111	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4112	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4113	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4114	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4116	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4117	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4119,20	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4122-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4125	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4126	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4127	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4128	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4129	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4130	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4131	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4132	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4135	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4136	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4137	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4138	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4139	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4140	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4201	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4202	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4203	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4206	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4208	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4209	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4210	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4211	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4212	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4213	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4216	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4217	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4218	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4301	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4306	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R4307	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4309	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R4310	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4312	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4315	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4316	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4318	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4319,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4322	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4324	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4327	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4330	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4332	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4335	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4340	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4344	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4346	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
T4001,02	VLT0729	TRANSFORMER	2	G4ZZ00000358
TG1	VJR0646	TEST POINT	1	D0X0R0000022
TG4005	EYF6CU	TEST POINT	1	
TG4101	EYF6CU	TEST POINT	1	
TG4203	EYF6CU	TEST POINT	1	
TP1,P2	EYF6CU	TEST POINT	2	
TP4001-04	EYF6CU	TEST POINT	4	
TP4101,02	EYF6CU	TEST POINT	2	
TP4201,02	EYF6CU	TEST POINT	2	
VR4001	VRV0161B503	V.RESISTOR 50K	1	
VR4002	VRV0161B103	V.RESISTOR 10K	1	
VR4103	VRV0161B503	V.RESISTOR 50K	1	
VR4301,02	VRV0161B502	V.RESISTOR 5K	2	
VR4305,06	VRV0161B103	V.RESISTOR 10K	2	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP7961	RF PB MOUNT ANGLE	2	
	VSC5040	HEAD BUFF SHIELD (UPPER)	1	
	VSC5041	HEAD BUFF SHIELD (MIDDLE)	1	
	VSC5042	P.C.BOARD SHIELD (LOWER)	1	
	XTV3+6FFR	SCREW	2	
	XYN2+J6	SCREW	2	
	VSC5583	EARTH HOLDER ANGLE	1	
	XSN26+3	SCREW	1	
	VMZ3026	SHIELD PROTECT SHEET	1	
	VEE9862	EARTH CABLE	1	
■ E6	VEP84393B	APROC P.C.BOARD	1	(RTL)
C4002-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4006,07	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4051-63	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	13	
C4101-05	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C4106	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4107-11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C4112	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C4113	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4151	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4152	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C4153	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4154	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C4155	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4156	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C4157-59	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4160,61	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4164-67	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4170,71	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4172-75	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4178-86	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	9	
C4187	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4188-90	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4191	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4193-95	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4196,97	EEVHB0J330	E.CAPACITOR 6.3V 33U	2	
C4198,99	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4201-04	ECQV1H105JL	P.CAPACITOR 50V 1U	4	
C4213,14	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4215-18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4219,20	F2H0J4700003	E.CAPACITOR 6.3V 47U	2	
C4221-24	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4225,26	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4227,28	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4229-32	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	4	
C4233-42	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	10	
C4243,44	F2H0J4700003	E.CAPACITOR 6.3V 47U	2	
C4245-48	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4249	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4250-53	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4254,55	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4256	F2H0J4700003	E.CAPACITOR 6.3V 47U	1	
C4265-68	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4269-72	ECHU1C472JB	P.CAPACITOR 16V 4700P	4	
C4273-80	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	8	
C4281-84	EEVHP0J100	E.CAPACITOR 6.3V 10U	4	
C4401-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4405-08	EEVHB1C100	E.CAPACITOR 16V 10U	4	
C4409-12	EEVHB1C220	E.CAPACITOR 16V 22U	4	
C4414,15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4417,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4420,21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4423,24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4425-28	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	4	
C4429-32	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C4433,34	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4435	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4437	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4439	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4440	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4441	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4442	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4443,44	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4445,46	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4447,48	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4449-52	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4453-56	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	4	
C4457	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4458-65	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	8	
C4466-69	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4601	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C4602,03	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4608,09	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4613-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4617,18	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4619,20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4621,22	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4623	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4624,25	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4626,27	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4628	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4630,31	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4632	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4633,34	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4635,36	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4637	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4801,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4803,04	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4805,06	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C4807,08	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4809,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4811,12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4813,14	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4815,16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4817	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4818,19	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4820	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4821	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4823	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4825	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4827,28	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4829-32	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4833-36	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4837,38	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C4839,40	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4841,42	D4ED1220A006	VARISTOR	2	
D4201-03	MA716	DIODE	3	
D4601	MA716	DIODE	1	
D4602	MA147	DIODE	1	
D4603	MA716	DIODE	1	
D4604-06	MA142WK	DIODE	3	
D4607	MA716	DIODE	1	
D4608,09	MA142WA	DIODE	2	
FL4101	VLF1466B223	LINE FILTER	1	
IC4003	TVHC244FT	IC	1	
IC4004	C1ZBZ0001555	IC	1	
IC4006	C0EBE0000236	IC	1	
IC4007	C1ZBZ0002372	IC	1	
IC4008	TVHT244FT	IC	1	
IC4057-59	TVHT244FT	IC	3	
IC4060,61	TVHC244FT	IC	2	
IC4105,06	SN74S1051NS	IC	2	
IC4109-11	C0JBAZ000852	IC	3	
IC4112	TLCX245FT	IC	1	
IC4114-16	TVHT244FT	IC	3	
IC4151,52	C0JBAB000422	IC	2	
IC4155	TVHT244FT	IC	1	
IC4156	C0CBADD00003	IC	1	
IC4158	TLCX245FT	IC	1	
IC4160	MC74HC4046AF	IC	1	C0JBAZ000153

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4163	C5AB00000006	IC	1	
IC4164	C0ABHA000020	IC	1	
IC4166	TLCX245FT	IC	1	
IC4167	TVHC244FT	IC	1	
IC4169,70	C5AB00000006	IC	2	
IC4171	C3ABQG000045	IC	1	
IC4172	C5AB00000006	IC	1	
IC4173	TVHC244FT	IC	1	
IC4174,75	C0ZBZ0000830	IC	2	
IC4205-08	TA75W558FU	IC	4	C0ABBA000042
IC4209	XC62AP5002M	IC	1	C0CBADD00005
IC4210	XC62DN5002M	IC	1	
IC4211-14	THC4052FT	IC	4	
IC4219	XC62AP5002M	IC	1	C0CBADD00005
IC4220	XC62DN5002M	IC	1	
IC4221-24	C0FBBG000033	IC	4	
IC4225-28	TA75W558FU	IC	4	C0ABBA000042
IC4229-32	THC4052FT	IC	4	
IC4233	XC62AP5002M	IC	1	C0CBADD00005
IC4242-45	TA75W558FU	IC	4	C0ABBA000042
IC4401-04	C0ABBB000184	IC	4	
IC4409,10	C0FBZK000006	IC	2	
IC4411	C0CBABE00013	IC	1	
IC4412-15	C0ABBB000184	IC	4	
IC4420-23	THC4052FT	IC	4	
IC4601,02	C0JBAR000379	IC	2	
IC4603	TA75W558FU	IC	1	C0ABBA000042
IC4606,07	TC4W53FU	IC	2	
IC4613	TA75W558FU	IC	1	C0ABBA000042
IC4615	TA75W558FU	IC	1	C0ABBA000042
IC4617	TA75W558FU	IC	1	C0ABBA000042
IC4618	THC4052FT	IC	1	
IC4620	THC4052FT	IC	1	
IC4622	TA75W558FU	IC	1	C0ABBA000042
IC4624	THC4052FT	IC	1	
IC4626	THC4052FT	IC	1	
IC4632,33	C0JBAR000379	IC	2	
IC4636	XC62AP5002M	IC	1	C0CBADD00005
IC4637	XC62DN5002M	IC	1	
IC4639	TA75W558FU	IC	1	C0ABBA000042
IC4640	XC62AP5002M	IC	1	C0CBADD00005
IC4641	XC62DN5002M	IC	1	
IC4642	TA75W558FU	IC	1	C0ABBA000042
IC4644	XC62AP5002M	IC	1	C0CBADD00005
IC4645	XC62DN5002M	IC	1	
IC4646	THC4052FT	IC	1	
IC4801	TA75W558FU	IC	1	C0ABBA000042
IC4805	C1BB00000360	IC	1	
IC4806,07	NJM4556AM	IC	2	C0ABBB000042
ID0	VVVSI4283A	SOFTWARE	1	DOWNLOAD ONLY
L4151,52	VLF1151A132	COIL	2	
P4001	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P4002	K1KA08B00147	CONNECTOR (FEMALE)	1	
Q4201-04	2SD1979	TRANSISTOR	4	
Q4601-04	2SB1219A-R	TRANSISTOR	4	
Q4801	2SD602A-R	TRANSISTOR	1	
Q4802	2SB710A-RS	TRANSISTOR	1	
Q4803,04	2SD1979	TRANSISTOR	2	
Q4805,06	2SD1328	TRANSISTOR	2	
QR4201-04	UNR521300L	TRANSISTOR	4	
QR4205-08	UNR511300L	TRANSISTOR	4	
QR4601,02	UNR521300L	TRANSISTOR	2	
R4003	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4005-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4009	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4010	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4011	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4012	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4013	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4015	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4016	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4017	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4021	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
R4026	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4028	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4029	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4032	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4034	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4051	EXBV8V102J	COMBI.R-R 1K	1	
R4052	D1H833040002	COMBI.R-R 33	1	
R4053	EXBV8V102J	COMBI.R-R 1K	1	
R4054,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4056	D1H833040002	COMBI.R-R 33	1	
R4057-61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R4062	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4063	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4064	ERJ3GEYJ510	M.RESISTOR CH 1/16W 51	1	
R4065	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4066	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4067-73	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	7	
R4101-03	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R4104,05	D1H847240002	COMBI.R-R 4.7K	2	
R4112-14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4115	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4116	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4151	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4152	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4159	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4160	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4162	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4163,64	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4166	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4168	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4169,70	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R4171	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4172	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4173,74	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4175	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4176	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4178	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4179-81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4201-04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4205-08	ERJ3GEYJ114	M.RESISTOR CH 1/16W 110K	4	
R4209-12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4213-16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R4217-20	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4221	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4222	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4223	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4224	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4225	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4226	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4227	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4228	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4229	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4230	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4231	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4232	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4233	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4234	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4235	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4236	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4237	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4238	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4239	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4240	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4241	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4242	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4243	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4244	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4245	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4246	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4247	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4248	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4249-52	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	4	
R4253	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4255	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4256	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4257	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4258	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4259	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4260	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4261	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4262	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4263	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4264	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4265	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4266	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4267	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4268	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4269	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4270	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4271	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4272	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4273	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4274	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4275	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4276	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4277	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4278	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4279	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4280	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4281-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4285-88	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4289,90	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4291-94	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	4	
R4295-98	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	4	
R4299-02	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	4	
R4303-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4307	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4308	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4309	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4310	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4311	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4312	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4313	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4314	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4315	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4316	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4317	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4318	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4319-22	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	4	
R4323-26	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4327-30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R4331-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4335-38	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	4	
R4401-12	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	12	
R4413-16	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	4	
R4417-24	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4425-32	ERJ3RBD331	M.RESISTOR CH 1/16W 330	8	
R4433,34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4435,36	D1H84704A008	COMBI.R-R 47	2	
R4437,38	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4439,40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4441,42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4443	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4444	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4445	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4446-48	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4450	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4452	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4453	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4457	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4458-69	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	12	
R4470-77	ERJ3RBD201	M.RESISTOR CH 1/16W 200	8	
R4478-86	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	9	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4487	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4488	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4489	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4490	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4491	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4492	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4493	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4494	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4495	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4496	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4497	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4498	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4499	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4500	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4501	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4502	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4503	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4504	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4505	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4506	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4507	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4508	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4509	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4510	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4511	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4512	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4513	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4601	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4602-10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	9	
R4612	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4613	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R4614	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4617,18	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4619	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4620-23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4624	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4626	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4628,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4636	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4637	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4638	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4639	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4640	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4641	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4642	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4643	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4646,47	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	2	
R4648	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4649	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4650	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4651	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4652	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4653	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4654	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4655	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4656	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4657	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4658	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4659	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4660	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4661	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4662,63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4667	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4668	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4669	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4670	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4671	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4672	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4675-78	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4679,80	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	2	
R4681-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4685,86	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	2	
R4687	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4688,89	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	2	
R4690	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4692	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4694	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4695	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4696	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4697	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4698,99	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4701	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4702	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4703	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4704	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4706	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4707	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4708,09	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4710	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4712-15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4801,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4803,04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4805,06	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4807,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4809	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4811-13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4814	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4815	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R4818,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4821	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4823	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4825,26	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4829,30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4831,32	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R4833,34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4835,36	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4837,38	ERJ3GEYJ432	M.RESISTOR CH 1/16W 4.3K	2	
R4839,40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4841	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R4842	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R4843	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R4844	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R4845,46	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4847,48	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4849	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4850	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4851	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4852	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4853-58	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
TG4155-57	EYF6CU	TEST POINT	3	
TG4201	EYF6CU	TEST POINT	1	
TG4401,02	EYF6CU	TEST POINT	2	
TG4601	EYF6CU	TEST POINT	1	
TP4001-04	EYF6CU	TEST POINT	4	
TP4055,56	EYF6CU	TEST POINT	2	
TP4151-53	EYF6CU	TEST POINT	3	
TP4602-07	EYF6CU	TEST POINT	6	
VR4201-04	VRV0161B103	V.RESISTOR 10K	4	
VR4401-04	VRV0161B502	V.RESISTOR 5K	4	
X4151	VSX0519	CRYSTAL OSCILLATOR	1	H0D160500011
X4152	H4G2455B0005	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E7	VEP84368B	A I/O P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4001	ECA1CHG221	E.CAPACITOR 16V 220U	1	
C4101,02	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4103,04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4105,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4107,08	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4109,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4111-18	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	8	
C4119,20	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4121,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C4123-30	EEVHB1C470P	E.CAPACITOR 16V 47U	8	
C4201,02	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4203,04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4205,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4207,08	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4209,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4211-18	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	8	
C4219,20	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4221,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C4223-30	EEVHB1C470P	E.CAPACITOR 16V 47U	8	
C4300-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C4304,05	EEVHB1A330	E.CAPACITOR 10V 33U	2	
C4306-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	F1J1E104A082
C4310,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4312-15	EEVHP1C100	E.CAPACITOR 16V 10U	4	
C4316-19	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	4	
C4320-23	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4326-29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4330,31	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	2	
C4400-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C4404,05	EEVHB1A330	E.CAPACITOR 10V 33U	2	
C4406-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	F1J1E104A082
C4410,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4412-15	EEVHP1C100	E.CAPACITOR 16V 10U	4	
C4416-19	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	4	
C4420-23	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4426-29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4430,31	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	2	
D4300,01	MA152WA	DIODE	2	
D4302,03	MA152WK	DIODE	2	
D4304	MA716	DIODE	1	
D4400,01	MA152WA	DIODE	2	
D4402,03	MA152WK	DIODE	2	
D4404	MA716	DIODE	1	
IC4101	TA75W558FU	IC	1	C0ABBA000042
IC4102	NJM4556AM	IC	1	C0ABBB000042
IC4103	TA75W558FU	IC	1	C0ABBA000042
IC4104	NJM4556AM	IC	1	C0ABBB000042
IC4201	TA75W558FU	IC	1	C0ABBA000042
IC4202	NJM4556AM	IC	1	C0ABBB000042
IC4203	TA75W558FU	IC	1	C0ABBA000042
IC4204	NJM4556AM	IC	1	C0ABBB000042
IC4300,01	AQV212SX	IC	2	K6G1AKB00012
IC4302,03	K6G4AKB00004	IC	2	
IC4304	XC62AP5002M	IC	1	C0CBADD00005
IC4305,06	NJM2122M	IC	2	
IC4307,08	TA75W558FU	IC	2	C0ABBA000042
IC4309	XC62DN5002M	IC	1	
IC4400,01	AQV212SX	IC	2	K6G1AKB00012
IC4402,03	K6G4AKB00004	IC	2	
IC4404	XC62AP5002M	IC	1	C0CBADD00005
IC4405,06	NJM2122M	IC	2	
IC4407,08	TA75W558FU	IC	2	C0ABBA000042
IC4409	XC62DN5002M	IC	1	
P4101	VJS3421A020	CONNECTOR (FEMALE)	1	K1MN20A00027
P4102	VJP3600F030K	CONNECTOR (MALE)	1	
P4103	K1KA03A00017	CONNECTOR (MALE)	1	
P4301	VJP3600F030K	CONNECTOR (MALE)	1	
P4303	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
Q4101	2SD602A-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4102	2SB710A-RS	TRANSISTOR	1	
Q4103-06	2SD1328	TRANSISTOR	4	
Q4201	2SD602A-R	TRANSISTOR	1	
Q4202	2SB710A-RS	TRANSISTOR	1	
Q4203-06	2SD1328	TRANSISTOR	4	
QR4300-09	UNR521300L	TRANSISTOR	10	
QR4400-09	UNR521300L	TRANSISTOR	10	
R4001-30	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	30	
R4031	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4101,02	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4103,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4105,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4107,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4109,10	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4111-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4119-22	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4123,24	ERJ3RBD121	M.RESISTOR CH 1/16W 120	2	
R4125-28	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4131-34	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4135-40	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	6	
R4141-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4145,46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4201,02	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4203,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4205,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4209,10	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4211-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4219-22	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4223,24	ERJ3RBD121	M.RESISTOR CH 1/16W 120	2	
R4225-28	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4231-34	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4235-40	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	6	
R4241-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4245,46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4301	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4303	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4304,05	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4306,07	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4308	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4310	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4312,13	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4314-21	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	8	
R4322-25	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	4	
R4326	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4328	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4329	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4330,31	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R4332-35	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4336	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4337	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4338	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4339	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4340,41	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4342-45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	
R4346-49	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R4350-55	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4356,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4358,59	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4362,63	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4364,65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R4366-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	D0YDR0000005
R4401	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4403	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4404,05	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4406	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4407	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4408	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4409	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4412,13	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4414-21	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	8	
R4422-25	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4426	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4428	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4429	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4430,31	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R4432-35	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4436	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4437	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4438	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4439	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4440,41	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4442-45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	
R4446-49	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R4450-55	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4456,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4458,59	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4462,63	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4464,65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R4466-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	D0YDR0000005
VR4101,02	EVM7JGA00B52	V.RESISTOR 500	2	
VR4201,02	EVM7JGA00B52	V.RESISTOR 500	2	
■ E9	VEP82250A	MECHA I/F P.C.BOARD	1	(RTL)
C4	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C9	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C12	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C13	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C16	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C18,19	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C21,22	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C23	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C300	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C301	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C302-04	EEVHB1C470P	E.CAPACITOR 16V 47U	3	
C305-09	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C310-12	EEVHB1C470P	E.CAPACITOR 16V 47U	3	
C313	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C314	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C315-21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C400	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C401	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C403	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C404	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C405-07	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
C500	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C501	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C502,03	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C504,05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C506,07	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C508,09	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C510,11	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C512,13	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C514,15	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C516,17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C518,19	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C520	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C521	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C522	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C523	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C524	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C525	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C526	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C527	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C528,29	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C530,31	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C532,33	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C534,35	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C536,37	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C538,39	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C540,41	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C542,43	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C544,45	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C546,47	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C600,01	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C602	ECUX1H123KBV	C.CAPACITOR CH 50V 0.012U	1	
C603,04	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	2	
C606	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C607	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C608	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C609	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C610	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C611	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C612	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C613	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C614	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C615	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C616	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C700-02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C703	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C704	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C705,06	EEVHB1C220	E.CAPACITOR 16V 22U	2	
D1	MA147	DIODE	1	
D300	MA2Q73800L	DIODE	1	
D301	MA8075-M	DIODE	1	
D400	MA142K	DIODE	1	
D401-03	MA2Q73800L	DIODE	3	
D500-11	MA2Q73800L	DIODE	12	
D512,13	MA147	DIODE	2	
D700,01	MA147	DIODE	2	
IC2	C0ABBB000179	IC	1	
IC3	0P177GS	IC	1	
IC4	C0ABBB000179	IC	1	
IC5	0P177GS	IC	1	
IC6	C0ABBB000179	IC	1	
IC7	C0ABBB000184	IC	1	
IC8	C0ABBB000179	IC	1	
IC14	C0JBAZ000994	IC	1	
IC15	UPC4741G2	IC	1	
IC18	C0ABBB000184	IC	1	
IC19	C0BBBA000044	IC	1	
IC300	C0ABBA000075	IC	1	
IC301	BA6238A	IC	1	C0GAK0000007
IC302-04	C0JBAZ000608	IC	3	
IC305	BA6238A	IC	1	C0GAK0000007
IC306,07	C0JBAQ000080	IC	2	
IC400	C0JBAM000052	IC	1	
IC401	C0BBBA000044	IC	1	
IC500	C0BBBA000044	IC	1	
IC501,02	AN3834S	IC	2	
IC503	C0ABBB000179	IC	1	
IC703	C0JBAZ000994	IC	1	
IC2254	TC4538BF	IC	1	
J400-03	K4CD01000007	CABLE TERMINAL	4	
L300-04	VLF1151A132	COIL	5	
P300	K1KAA0A00120	CONNECTOR (MALE)	1	
P400	VJS3801D015	CONNECTOR (FEMALE)	1	
P401,02	VJP3172D005	CONNECTOR (MALE)	2	K1KA05B00053
P403	K1KA02B00075	CONNECTOR (MALE)	1	
P404	K1KA03B00102	CONNECTOR (MALE)	1	
P405,06	K1KA02B00075	CONNECTOR (MALE)	2	
P407	VJP1243T	CONNECTOR (MALE) 3P	1	K1KA03B00012
P408	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P409	K1KA03B00102	CONNECTOR (MALE)	1	
P410	K1KA02B00075	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P411	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P412	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P413	K1KA06A00031	CONNECTOR (MALE)	1	
P414	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P415,16	VJS3813C017	CONNECTOR (FEMALE)	2	K1MN17B00012
P417,18	VJP3172D004	CONNECTOR (MALE)	2	K1KA04B00007
P419	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P420	VJS3422B015	CONNECTOR (FEMALE)	1	
P421	VJS3422B019	CONNECTOR (FEMALE)	1	
P422,23	VJP3172D002	CONNECTOR (MALE)	2	K1KA02B00051
Q1	2SB1218A-R	TRANSISTOR	1	
Q100-07	B1DZED000002	TRANSISTOR	8	
Q300	2SD601A	TRANSISTOR	1	
Q301	2SB936A-Q	TRANSISTOR	1	
Q400,01	2SB766	TRANSISTOR	2	
Q500-05	2SD1624-S	TRANSISTOR	6	
Q700	2SD601A	TRANSISTOR	1	
Q701,02	2SB0709A0L	TRANSISTOR	2	
Q703	2SD601A	TRANSISTOR	1	
Q704	2SB0709A0L	TRANSISTOR	1	
Q705	2SD601A	TRANSISTOR	1	
QR100-11	UNR521300L	TRANSISTOR	12	
QR400,01	UNR521400L	TRANSISTOR-RESISTOR	2	
QR500-03	UN5215	TRANSISTOR-RESISTOR	4	
QR700	UNR521300L	TRANSISTOR	1	
QR701	UNR511300L	TRANSISTOR	1	
QR702	UN5215	TRANSISTOR-RESISTOR	1	
QR703	UNR511500L	TRANSISTOR	1	
R3,R4	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R7	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R10	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R11,12	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R13	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R15	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R16	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R18	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R19	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R20	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R21	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R22	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R24	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R25	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R26	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R27	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R28	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R31	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R32	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R33	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R100-03	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R104-06	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R107,08	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R109	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R110,11	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R112-15	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R300	EXBV8V473J	COMBI.R-R 47K	1	
R301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R302	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R303	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R304	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R305	EXBV8V473J	COMBI.R-R 47K	1	
R306	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R307,08	EXBV8V473J	COMBI.R-R 47K	2	
R309	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R310-12	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	3	
R313	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R314	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R315-17	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R318-22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R351	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R400	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R401	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R402	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R405	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R406	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R407	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R409	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R410	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R411	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R412	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R413	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R414-17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R418	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R419	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R420	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R421,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R500-03	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R504	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R505	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R506,07	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R508	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R509	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R510	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R511	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R512	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R513,14	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R515-18	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	4	
R519-22	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	4	
R523,24	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R525-28	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R529	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R530	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R531	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R532-34	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	3	
R535-38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R539,40	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R600	ERJ3GEYJ433	M.RESISTOR CH 1/16W 43K	1	
R601	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R602	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R603,04	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R606,07	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609	ERJ3GEYJ621	M.RESISTOR CH 1/16W 620	1	
R610	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R611	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R612	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R613	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R614,15	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R616	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R617	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R618	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R619	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R620	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R621	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R622	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R623	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R624	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R700-03	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R704,05	ERJ3RBD471	M.RESISTOR CH 1/16W 470	2	
R706	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R707	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R708,09	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R710	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
VR1	EVM7JGA00B24	V.RESISTOR 20K	1	
VR2	EVM7JGA00B54	V.RESISTOR 50K	1	
VR400,01	VRV0303B203A	V.RESISTOR 20K	2	D3EC3203A002

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E10	VEP81203D	POWER 1 P.C.BOARD	1	(RTL)
■	VEP81233A	SUB POWER 1 P.C.BOARD	1	(RTL)FOR VEP81203D
⚠ C1001	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1002,03	F1BAH1020010	C.CAPACITOR 1000P	2	
⚠ C1004	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1005	VCK0262M222A	C.CAPACITOR 2200P	1	F1BAH2220002
C1006	EEUFC1H101	E.CAPACITOR 50V 100U	1	
C1007	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C1010	VCK0106K221	C.CAPACITOR 220P	1	
C1013	ECEC2WB151DB	E.CAPACITOR 450V 150U	1	
C1014	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1015	ECQE2W105KC	P.CAPACITOR 450V 1U	1	
⚠ C1016	ECQU2A154ML	P.CAPACITOR 100V 0.15U	1	
C1017	ECQF6222JZH	P.CAPACITOR 630V 2200P	1	
C1102	ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1103	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C1106	ECKD2H221KB	C.CAPACITOR 500V 220P	1	
C1107	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C1108	EEUFC1E182	E.CAPACITOR 25V 1800U	1	
C1110	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C1111-13	EEUFC1E182	E.CAPACITOR 25V 1800U	3	
C1114,15	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	2	
C1118	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1901	ECA1HXL100	E.CAPACITOR 50V 10U	1	FOR VEP81233A
C1902	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1903	ECJ2VC1H221J	C.CAPACITOR CH 50V 220P	1	FOR VEP81233A
C1904	ECQV1H684JL	P.CAPACITOR 50V 0.68U	1	FOR VEP81233A
C1905	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	FOR VEP81233A
C1906	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010 FOR VEP81233A
C1908	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	FOR VEP81233A
C1909	ECA1HXL010	E.CAPACITOR 50V 1U	1	FOR VEP81233A
C1910	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	F1J1H561A025 FOR VEP81233A
C1912	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	FOR VEP81233A
C1913	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	FOR VEP81233A
C1914	ECJ2VF1H104Z	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1915	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	FOR VEP81233A
C1916	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1917	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010 FOR VEP81233A
C1921,22	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	F1J1H103A010 FOR VEP81233A
C1923	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1924	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	FOR VEP81233A
D1001	SFPL-52	DIODE	1	
D1002	RBV606	DIODE	1	
D1003,04	SFPL-52	DIODE	2	
D1005	FML-G26S	DIODE	1	
D1006-09	MA3100-M	DIODE	4	
D1101	MA3270-M	DIODE	1	
D1103	SFPL-52	DIODE	1	
D1104	AP01C	DIODE	1	B0HADV000010
D1105	SFPL-52	DIODE	1	
D1106	D20LC20U	DIODE	1	B0HBSM000021
D1107	U1GU44	DIODE	1	
D1108	SFPL-52	DIODE	1	
D1109	MA3200-M	DIODE	1	
D1110,11	MA152K	DIODE	2	
D1112	MA3068-M	DIODE	1	
D1901,02	MA3200-M	DIODE	2	FOR VEP81233A
D1903	MA3100-M	DIODE	1	FOR VEP81233A
D1904	MA152K	DIODE	1	FOR VEP81233A
D1905	MA152WA	DIODE	1	FOR VEP81233A
D1906	MA3270-M	DIODE	1	FOR VEP81233A
D1907	MA3051-M	DIODE	1	MAZ30510ML FOR VEP81233A
D1908	MA3068-M	DIODE	1	FOR VEP81233A
D1911	MA3068-M	DIODE	1	FOR VEP81233A
D1914	MA152K	DIODE	1	FOR VEP81233A
⚠ F1001	VSF0246	FUSE	1	
IC1101	AN1431M	IC	1	
IC1901	M51951BL	IC	1	C0EAH0000030 FOR VEP81233A
IC1902	MC33262P	IC	1	C0DAZZZ00013 FOR VEP81233A
IC1903	FA5311BP	IC	1	C0DAAZZ00002 FOR VEP81233A

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
J1002	VWJ0121	CABLE	1	
J1004	VWJ0121	CABLE	1	
J1101,02	VWJ0121	CABLE	2	
L1002	VLQ0861	COIL	1	
⚠ L1003,04	ELF20N015A	COIL	2	
L1007	VLP0083	COIL	1	J0JKB0000011
L1101,02	VLP0083	COIL	2	J0JKB0000011
L1106-08	VLP0336	FERRITE CORE	3	
P1001	VJP2073	CONNECTOR (MALE)	1	K1KA02A00104
P1002,03	VJP3878	CONNECTOR (MALE)	2	K1KA02B00137
P1004,05	VJP3042G003W	CONNECTOR (MALE)	2	K1KA03A00157
P1006	VJP3042G017W	CONNECTOR (MALE)	1	K1KA17A00011
P1007	VJP1149	CONNECTOR (MALE)	1	K1KA03B00084
P1101	K1KA06A00262	CONNECTOR	1	
P1901,02	VJS3042B003W	CONNECTOR (FEMALE)	2	K1KB03B00007 FOR VEP81233A
P1903	VJS3042B017W	CONNECTOR (FEMALE) 17P	1	K1KB17B00005 FOR VEP81233A
⚠ PC1101,02	B3QAZ0000030	PHOTO COUPLER	2	
Q1001	AC08FGM	DIODE	1	B2BAJR000001
⚠ Q1002	2SK1941-01R	TRANSISTOR	1	B1DEGR000002
⚠ Q1101	2SK2677-4112	TRANSISTOR	1	B1BAGU000002
Q1102	2SD601A-R	TRANSISTOR	1	
Q1103	2SB0709ALL	TRANSISTOR	1	
Q1901	XN1501	TRANSISTOR-RESISTOR	1	FOR VEP81233A
Q1903	2SJ278	TRANSISTOR	1	FOR VEP81233A
QR1901	UN2111	TRANSISTOR-RESISTOR	1	FOR VEP81233A
QR1902	UNR221300L	TRANSISTOR	1	FOR VEP81233A
QR1904	UNR221300L	TRANSISTOR	1	FOR VEP81233A
QR1905	UN2113	TRANSISTOR-RESISTOR	1	FOR VEP81233A
QR1906	UNR211200L	TRANSISTOR	1	FOR VEP81233A
QR1907	UNR221300L	TRANSISTOR	1	FOR VEP81233A
⚠ R1001	ERC12AGM334C	S.RESISTOR 1/2W 33K	1	
R1002-05	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	4	
R1006	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
⚠ R1007	ERU5TEJ100	F.RESISTOR 5W 10	1	
R1009	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1010,11	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	2	
R1012	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1013	ERX2SJR22	M.RESISTOR 2W 0.22	1	
R1014	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1017	ERG2SJ220	M.RESISTOR 2W 22	1	
R1018	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1019	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
R1020	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R1021	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1023	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	1	
R1024	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1025	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1026	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R1101	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R1102	ERX2SJR33	M.RESISTOR 2W 0.33	1	
R1104	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	1	
R1105	ERJ12YJ680	M.RESISTOR CH 1/2W 68	1	
R1108	ERG2SJ104	M.RESISTOR 2W 100K	1	
R1109	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	1	
R1110	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1111	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	D0GD221JA003
R1112	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R1114	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1115,16	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1117	ERJ6RBD622	M.RESISTOR CH 1/10W 6.2K	1	
R1118	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R1119,20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1121	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R1122	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1123	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R1124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1125	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R1127	ERG2SJ104	M.RESISTOR 2W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1901,02	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	2	FOR VEP81233A
R1903	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1904	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	FOR VEP81233A
R1905-07	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	FOR VEP81233A
R1908	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	FOR VEP81233A
R1909	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1910	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	FOR VEP81233A
R1911	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	FOR VEP81233A
R1912,13	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	2	FOR VEP81233A
R1915	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1916	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	FOR VEP81233A
R1917	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	FOR VEP81233A
R1919	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	FOR VEP81233A
R1920,21	ERJ12YJ104	M.RESISTOR CH 1/2W 100K	2	FOR VEP81233A
R1923	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	D0GD225JA003 FOR VEP81233A
R1925	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	FOR VEP81233A
R1926-28	ER050CHD1503	M.RESISTOR 150K	3	FOR VEP81233A
R1930	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003 FOR VEP81233A
R1931-33	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	FOR VEP81233A
R1934	ERJ6GEYG912	M.RESISTOR CH 1/10W 9.1K	1	FOR VEP81233A
R1935	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	FOR VEP81233A
R1936	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	FOR VEP81233A
R1938	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	D0GD221JA003 FOR VEP81233A
R1944-46	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	FOR VEP81233A
R1949,50	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	FOR VEP81233A
R1951	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005 FOR VEP81233A
R1953	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	FOR VEP81233A
⚠ T1101	G4D2C0000005	TRANSFORMER	1	
⚠ TH1101	VRT0142	THERMISTOR	1	D4DDB3310005
TP1101	VJR0646	TEST POINT	1	D0X0R0000022
		MISCELLANEOUS		
⚠	VWZ0074	INSULATION COVER	1	
⚠	VMZ2187	INSULATION COVER	1	
⚠	VMZ1608	CAPACITOR TUBE	1	
	VMP5282	TRANSISTOR CLIP	1	
	VSC4861	HEAT SINK (C)	1	
	VSC4860	HEAT SINK (B)	1	
⚠	VMZ0965	CAPACITOR COVER	2	
	VSC3434	SHIELD CASE	1	
	XYN3+F8	SCREW	4	
	XTV3+8G	SCREW	1	
	VMP5283	EARTH LUG	2	
	XYN3+F6	SCREW	2	
	VMZ2908	HEAT SINK	2	
	VMZ2969	HEAT SINK	1	
	XYN3+J8	SCREW	4	
■ E11	VEP81219B	POWER 2 P.C.BOARD	1	(RTL)
C1201-03	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C1204	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C1206	ECA1HXS100	E.CAPACITOR 50V 10U	1	
C1207	ECQV1H684JL	P.CAPACITOR 50V 0.68U	1	
C1208,09	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1211	VCEA1DSP680	E.CAPACITOR 20V 68U	1	
C1212	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1213	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1214,15	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1301	ECA1HHGR33	E.CAPACITOR 50V 0.33U	1	
C1302	ECA1HHGR22	E.CAPACITOR 50V 0.22U	1	
C1303,04	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1305	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1306	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	
C1307	ECA1HHGR22	E.CAPACITOR 50V 0.22U	1	
C1308	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1309	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1310	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1311	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1312	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C1313	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1314	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1316,17	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C1318,19	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1325	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1326,27	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1328,29	VCEA1DSP680	E.CAPACITOR 20V 68U	2	
C1330-33	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
C1335	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1336	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1337	VCEA1AAP221	E.CAPACITOR 10V 220U	1	F2D1A2210001
C1338	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1339	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1340	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1341	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1342	F2D1A1010002	E.CAPACITOR 10V 100U	1	
C1344	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1345	F2D1D1010001	E.CAPACITOR 20V 100U	1	
C1346	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1347,48	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1352,53	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1354	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1401	ECUM1E683KBN	C.CAPACITOR CH 25V 0.068U	1	
C1402	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1403	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C1404	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1405,06	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1411	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1412,13	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1414	VCEA1ASC4R7M	E.CAPACITOR 10V 4.7U	1	F2D1A4R70002
C1415-17	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	3	
C1418,19	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1420,21	VCEA1AAP221	E.CAPACITOR 10V 220U	2	F2D1A2210001
C1422,23	F2D1A1010002	E.CAPACITOR 10V 100U	2	
C1424,25	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1427	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
C1801	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1802	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1803	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1804	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	
C1805	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1806	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C1807	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1808	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1811	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1814,15	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1816,17	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C1818	F2D1A1010002	E.CAPACITOR 10V 100U	1	
C1819	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1820	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1821	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1822	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1823	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1824	F2D1A1010002	E.CAPACITOR 10V 100U	1	
D1201	VSD0129	DIODE	1	
D1202	SF20SC3L	DIODE	1	B0JBSD000010
D1203	MA142WK	DIODE	1	
D1204	MA142WA	DIODE	1	
D1205	MA3100-M	DIODE	1	
D1206	MA142K	DIODE	1	
D1208	MA3200-M	DIODE	1	
D1209	MA8068-M	DIODE	1	
D1211	SFPB-54	DIODE	1	B0JCMC000002
D1212	MA142K	DIODE	1	
D1213	MA8100-M	DIODE	1	
D1214	MA142WK	DIODE	1	
D1215	MA3051-H	DIODE	1	
D1216	MA142K	DIODE	1	
D1301	MA152K	DIODE	1	
D1302-06	MA142K	DIODE	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1308	SFPB-54	DIODE	1	B0JCMC000002
D1309-11	DE5SC4M-4061	DIODE	3	B0JDRE000001
D1312,13	MA142K	DIODE	2	
D1314	MA8180-M	DIODE	1	
D1315	MA142K	DIODE	1	
D1316	MA8180-M	DIODE	1	
D1317	MA142K	DIODE	1	
D1318	MAZ80820HL	DIODE	1	
D1319	MA142K	DIODE	1	
D1320	MA8130-M	DIODE	1	
D1321	MA142K	DIODE	1	
D1322	MA142WA	DIODE	1	
D1323	MA142K	DIODE	1	
D1324	MA152K	DIODE	1	
D1402,03	MA142WK	DIODE	2	
D1404,05	SFPB-76V	DIODE	2	
D1406,07	MAZ80680KL	DIODE	2	
D1408	MA142WA	DIODE	1	
D1409	MA142WK	DIODE	1	
D1801	MA142K	DIODE	1	
D1802	MAZ81400ML	DIODE	1	
D1803	MA142K	DIODE	1	
D1804	MAZ80680KL	DIODE	1	
D1805	MA142K	DIODE	1	
D1806	MA142WA	DIODE	1	
D1807	MA152K	DIODE	1	
D1808,09	MA142K	DIODE	2	
D1810,11	DE5SC4M-4061	DIODE	2	B0JDRE000001
⚠ F1201	K5D103AQ0001	FUSE	1	
IC1201	C0BBBA000019	IC	1	
IC1203	UPC1093J	IC	1	C0DAEMC00002
IC1301,02	BA9743AFV	IC	2	C0DBAZC00010
IC1401	C0DBAZB00006	IC	1	
IC1801	BA9743AFV	IC	1	C0DBAZC00010
L1301,02	VLQ0655K100	COIL 10UH	2	
L1303,04	J0JBC0000023	FILTER	2	
L1305	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1306	J0JBC0000023	FILTER	1	
L1307	VLQ0859M220	COIL 22UH	1	
L1308	VLQ0859M221	COIL 220U	1	
L1309	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1310	VLQ0859M221	COIL 220U	1	
L1311	VLQ0655K220	COIL 22UH	1	
L1312	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1313	VLQ0441K220	COIL 22UH	1	
L1314,15	VLQ0655K220	COIL 22UH	2	
L1316	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1317	J0JKC0000009	FILTER	1	
L1401-04	J0JBC0000023	FILTER	4	
L1405,06	VLQ0441K1R0	COIL 1.0UH	2	
L1407	VLQ0859M100	COIL 10UH	1	
L1408	VLQ0859M220	COIL 22UH	1	
L1409	VLQ0655M3R3	COIL 3.3UH	1	
L1410	VLQ0655K100	COIL 10UH	1	
L1801	VLQ0655K100	COIL 10UH	1	
L1802,03	J0JBC0000023	FILTER	2	
L1804	VLQ0784331	COIL 330UH	1	
L1805	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1806	VLQ0859M221	COIL 220U	1	
L1807,08	VLQ0441K220	COIL 22UH	2	
L1809	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
P1201	K1KA06A00262	CONNECTOR	1	
P1202	VJP3957A002	CONNECTOR (MALE)	1	K1KA02A00169
P1203	VJP4232B030	CONNECTOR (MALE)	1	K1KA30B00031
P1204	VJP1596T	CONNECTOR (MALE)	1	K1KA03A00113
P1205	K1KA03A00017	CONNECTOR (MALE)	1	
Q1201,02	XN0121300L	TRANSISTOR-RESISTOR	2	
Q1203	XN0460100L	TRANSISTOR-RESISTOR	1	
Q1204-07	B1DGJG000005	TRANSISTOR	4	
Q1208,09	XN0440100L	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1210	XN4501	TRANSISTOR-RESISTOR	1	
Q1211,12	2SD1819A-R	TRANSISTOR	2	
Q1301,02	XN4501	TRANSISTOR-RESISTOR	2	
Q1303,04	2SD1819A-R	TRANSISTOR	2	
Q1306,07	2SD1819A-R	TRANSISTOR	2	
Q1308	2SD1820A-R	TRANSISTOR	1	
Q1309-12	XN0440100L	TRANSISTOR	4	
Q1313	2SJ279S	TRANSISTOR	1	B1DGDG000002
Q1314	2SJ214S	TRANSISTOR	1	
Q1315	2SJ279S	TRANSISTOR	1	B1DGDG000002
Q1316,17	2SK1059-Z	TRANSISTOR	2	B1DFDG000001
Q1318,19	2SD1819A-R	TRANSISTOR	2	
Q1401-04	B1DFFD000006	FET	4	
Q1801	2SD1819A-R	TRANSISTOR	1	
Q1802	XN4501	TRANSISTOR-RESISTOR	1	
Q1803	2SD1819A-R	TRANSISTOR	1	
Q1805	2SD1819A-R	TRANSISTOR	1	
Q1807,08	XN0440100L	TRANSISTOR	2	
Q1809,10	2SJ279S	TRANSISTOR	2	B1DGDG000002
QR1201	UNR521300L	TRANSISTOR	1	
QR1202	UNR521100L	TRANSISTOR	1	
QR1203	UNR511300L	TRANSISTOR	1	
QR1204	UN5212	TRANSISTOR-RESISTOR	1	
QR1207	UN5212	TRANSISTOR-RESISTOR	1	
QR1208	UNR511300L	TRANSISTOR	1	
QR1210,11	UNR521100L	TRANSISTOR	2	
QR1301,02	UNR511200L	TRANSISTOR	2	
QR1303	UNR521100L	TRANSISTOR	1	
QR1304,05	UNR511200L	TRANSISTOR	2	
QR1306-08	UNR521100L	TRANSISTOR	3	
QR1309,10	UNR511300L	TRANSISTOR	2	
QR1801	UNR511300L	TRANSISTOR	1	
QR1802	UNR511200L	TRANSISTOR	1	
QR1803	UNR521100L	TRANSISTOR	1	
QR1804	UNR511200L	TRANSISTOR	1	
QR1805	UNR521100L	TRANSISTOR	1	
R1201	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1202-05	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R1207,08	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	2	
R1209	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1210	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1211	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1212	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1213	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1215	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1217	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1220,21	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1222	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1223	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1224	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1225	ERJ3RBD513	M.RESISTOR CH 1/16W 51K	1	
R1227,28	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1229	VRE0222J33M	M.RESISTOR	1	
R1230	VRE0222J10M	M.RESISTOR	1	
R1231,32	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R1233,34	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	2	
R1235	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R1236,37	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1238,39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1240	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R1241	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1242	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1243	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1244	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	D0GD220JA003
R1248	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1249	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R1252	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1303-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R1307,08	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R1309-12	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R1313,14	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R1315	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1316	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1317	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1318	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1319,20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R1321	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1322	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1323	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1324,25	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1326	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1327-29	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R1330	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1331	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1332,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1334	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1335	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R1336	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1338	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1339,40	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1341	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1342	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1344	VRE0202H18	M.RESISTOR CH 0.18	1	
R1345,46	ERJL14KJ50M	M.RESISTOR CH 1/4W 5	2	
R1347	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1348	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1349	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1350	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1351	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1352	VRE0202HR10	M.RESISTOR CH 1	1	
R1355	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1357,58	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1359	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1360	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1364,65	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1366	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1368	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1371	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1372	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1373	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1374,75	ERJ6RBD911	M.RESISTOR CH 1/10W 910	2	
R1376	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R1377	ERJ6RBD563	M.RESISTOR CH 1/10W 56K	1	
R1378,79	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1380	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R1381	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1382	ERJ6RBD111	M.RESISTOR CH 1/10W 110	1	
R1383	ERJ6RBD362	M.RESISTOR CH 1/10W 3.6K	1	
R1384,85	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1386,87	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	D0GD121JA003
R1388	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1390	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1392	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1393	ERJ6RBD751	M.RESISTOR CH 1/10W 750	1	
R1394	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1395	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R1403	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1404	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1405	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1407,08	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1409,10	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	2	
R1416	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1417,18	VRE0202H12	M.RESISTOR CH 0.12	2	
R1419,20	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1421	ERJ6RBD432	M.RESISTOR CH 1/10W 4.3K	1	
R1422	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R1423,24	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1425	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1427	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1801,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1803,04	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	D0GD121JA003
R1805,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1807-10	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R1812	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1813	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1814	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R1815	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1817	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1818	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1819	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1820	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R1821	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1822	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1823	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1824,25	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	D0GD222JA003
R1828	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1829	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R1830,31	ERJL14KJ50M	M.RESISTOR CH 1/4W 5	2	
R1832	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1833	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1834	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1835	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1838,39	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1843	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1844	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R1845	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R1846	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1847	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
R1848	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R1849	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R1850	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
T1301	VLT0925	TRANSFORMER	1	G4ZZ00000377
⚠ TH1205	VRT0148050	THERMISTOR	1	D4ZZ00000006
TH1206	VRT0143	THERMISTOR	1	
TP1301-06	EYF6CU	TEST POINT	6	
TP1401,02	EYF6CU	TEST POINT	2	
TP1801,02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	EYF52BC	FUSE HOLDER	2	
	VJR1008	EARTH LUG	4	
	VSC4859	HEAT SINK (A)	1	
	XYN3+F8	SCREW	1	
	XYN3+J8	SCREW	1	
■ E12	VEP81232B	POWER 3 P.C.BOARD	1	(RTL)
C1502	EEFCD0K330R	E.CAPACITOR 8V 33U	1	
C1503	ECA0JHG471B	E.CAPACITOR 6.3V 470U	1	
C1504	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	1	
C1505	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C1506	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1507	EEUFC1V561S	E.CAPACITOR 35V 560U	1	
C1508	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1509	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1510,11	ECA1CHG472	E.CAPACITOR 16V 4700U	2	
C1601	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1609	ECJ2VC1H222J	C.CAPACITOR CH 50V 2200P	1	
C1613	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1614	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C1616	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1620	ECJ2XC1H331J	C.CAPACITOR CH 50V 330P	1	
C1621	ECUM1H100JCN	C.CAPACITOR CH 50V 10P	1	
C1630	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1631	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1701,02	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1703	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1704,05	ECUX1H563KBN	C.CAPACITOR CH 50V 0.056U	2	
C1706,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1708,09	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1710,11	F2H1D470A004	E.CAPACITOR CH 20V 47U	2	
C1712,13	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1714,15	EEUFC1A391	E.CAPACITOR 10V 390U	2	
C1716,17	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1718,19	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1720,21	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	2	
C1722	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1801,02	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1803	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1804,05	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	2	
C1806,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1808,09	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1810,11	F2H1D470A004	E.CAPACITOR CH 20V 47U	2	
C1812,13	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1814,15	EEUFC1A391	E.CAPACITOR 10V 390U	2	
C1816,17	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C1818,19	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1820,21	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	2	
C1822	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
D1501	MA3051-H	DIODE	1	
D1502,03	MA115	DIODE	2	
D1504	MA3270-M	DIODE	1	
D1505	NSQ03A04	DIODE	1	B0JCPE000013
D1506	MA3062M	DIODE	1	
D1507	MA142K	DIODE	1	
D1606	MAZ82200ML	DIODE	1	
D1609	MA142WK	DIODE	1	
D1610	NSQ03A04	DIODE	1	B0JCPE000013
D1611	MA142WK	DIODE	1	
D1701	MA720	DIODE	1	
D1703,04	NSQ03A04	DIODE	2	B0JCPE000013
D1705,06	MA8056-MH	DIODE	2	
D1708	MA142WK	DIODE	1	
D1710	MA720	DIODE	1	
D1711	MA142WK	DIODE	1	
D1720,21	MA8030-H	DIODE	2	
D1803,04	NSQ03A04	DIODE	2	B0JCPE000013
D1805,06	MA8056-MH	DIODE	2	
D1807	MA142WA	DIODE	1	
D1808	MA142WK	DIODE	1	
D1809,10	MA720	DIODE	2	
D1811	MA8030-H	DIODE	1	
D1813	MA8030-H	DIODE	1	
IC1501	C0ABBA000071	IC	1	
IC1602	C0DBAKG00004	IC	1	
IC1702,03	C0DBAGH00030	IC	2	
IC1801,02	C0DBAGH00030	IC	2	
JP1501-03	VJR1008	EARTH LUG	3	
L1501	G1A220F00006	COIL 22UH	1	
L1602	G1A4R7H00002	COIL 4.7UH	1	
L1603	VLQ0859M470	COIL 47UH	1	
L1604	J0JKC0000009	FILTER	1	
L1605	J0JBC0000023	FILTER	1	
L1609	G1A4R7H00002	COIL 4.7UH	1	
L1701	G1A4R7H00002	COIL 4.7UH	1	
L1702,03	J0JBC0000023	FILTER	2	
L1704,05	J0JKC0000009	FILTER	2	
L1706,07	VLQ0859M470	COIL 47UH	2	
L1709	G1A4R7H00002	COIL 4.7UH	1	
L1712	G1A4R7H00002	COIL 4.7UH	1	
L1801	G1A4R7H00002	COIL 4.7UH	1	
L1802,03	J0JBC0000023	FILTER	2	
L1804,05	J0JKC0000009	FILTER	2	
L1806,07	VLQ0859M100	COIL 10UH	2	
L1812	G1A4R7H00002	COIL 4.7UH	1	
P1501	VJP3926A024	CONNECTOR (MALE)	1	
P1502	K1KA06A00031	CONNECTOR (MALE)	1	
P1503	K1KA08A00119	CONNECTOR (MALE)	1	
Q1501	2SD601A-R	TRANSISTOR	1	
Q1502	2SC3074Y	TRANSISTOR	1	B1BADF000002
Q1503	2SB936A-Q	TRANSISTOR	1	
Q1504	2SD1819A-R	TRANSISTOR	1	
Q1602	B1DFFD000006	FET	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1701-04	B1DFFD000006	FET	4	
Q1705,06	2SD1819A-R	TRANSISTOR	2	
Q1708,09	2SD1819A-R	TRANSISTOR	2	
Q1801-04	B1DFFD000006	FET	4	
R1501	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1502,03	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	D0GD221JA003
R1504,05	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R1506	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1507	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1508	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1509	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R1510-12	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	3	
R1513	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1609	ERJL1WKJ47M	M.RESISTOR CH 1W	1	
R1619	ERJ6RED474	M.RESISTOR CH 1/10W 470K	1	
R1623	ERJ6RBD243	M.RESISTOR CH 1/10W 24K	1	
R1626	ERJ6RBD393	M.RESISTOR CH 1/10W 39K	1	
R1627	ERJ6RBD182	M.RESISTOR CH 1/10W 1.8K	1	
R1628	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R1648	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1650	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
⚠ R1659	K5H312300003	FUSE	1	
R1701,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1705,06	ERJL1WKJ47M	M.RESISTOR CH 1W	2	
R1707,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1711,12	ERJ6RED184	M.RESISTOR CH 1/10W 180K	2	
R1713	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1714	ERJ6RED154	M.RESISTOR CH 1/10W 150K	1	
R1715	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1716	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R1717,18	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1719	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1721,22	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R1723,24	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R1725	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1730,31	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R1801,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1805,06	VRE0202H22M	M.RESISTOR	2	
R1807,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1809	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1810	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1811	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1812	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1813	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1814	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1815,16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1820,21	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
T1501	VLT0889	TRANSFORMER	1	G4ZZ00000368
		MISCELLANEOUS		
	VSC5620	SHIELD A	1	
	VMP5861	P.C.B. HOLDER ANGLE (L)	1	
	VMP5862	P.C.BOARD FIX ANGLE (R)	1	
	XTV3+6F	SCREW	2	
	VKC0295	BOARD SPACER	1	
■ E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	(RTL)
P1,P2	K1KB06B00035	CONNECTOR (FEMALE)	2	
■ E14	VEP80C73B	MOTHER P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
JP1-P6	VJR1008	EARTH LUG	6	
P101	K1KA08A00441	CONNECTOR (MALE)	1	
P103-05	K1KA08A00441	CONNECTOR (MALE)	3	
P111	VJS4232A030	CONNECTOR (FEMALE)	1	K1KB30A00003
P112	VJP3926A024	CONNECTOR (MALE)	1	
P201-05	VJS4064N160E	CONNECTOR (FEMALE)	5	K1KAG0A00006
P206	VJS4064K140E	CONNECTOR (FEMALE)	1	K1KAE0A00007
P301,02	VJS3600F030K	CONNECTOR (FEMALE)	2	
P303	VJS3406D020	CONNECTOR (FEMALE)	1	K1MN20B00029
P401,02	K1MN40A00007	CONNECTOR	2	
P403	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048
		MISCELLANEOUS		
	VKC0295	BOARD SPACER	2	
	VEE1A29	SHIELD CABLE	1	
	VJF0300	A/C HEAD BINDER	1	
■ E15	VEP86343A	FRONT P.C.BOARD	1	(RTL)
C1-C3	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	3	F1J1H121A025
C4,C5	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	F1J1H101A025
C6-C8	F1L1A4760003	C.CAPACITOR CH 16V 47U	3	
C9-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C13	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C14,15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C16	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C18	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C100	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C101-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C200	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
D1-D5	MA3X15300L	DIODE	5	
D200-04	LN38GCPP	LED	5	
DP100	VSL0489	DISPLAY	1	A2BA00000191
IC1	C2CBKJ000078	IC	1	
IC2	TL7705CPSB	IC	1	C0EBS0000002
IC3	C0JBAB000350	IC	1	
IC100,01	MN12511S	IC	2	
ID0	VVVSI4330A	SOFTWARE	1	DOWNLOAD ONLY
J1	VJJ0571	JACK	1	
L1,L2	G1C101K00022	COIL 100UH	2	
P1	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048
P2	K1KA03A00017	CONNECTOR (MALE)	1	
P3	K1KA06A00031	CONNECTOR (MALE)	1	
P200	VJS4243B018	CONNECTOR (FEMALE)	1	K1MN18B00032
Q100-06	2SB710A-R	TRANSISTOR	7	
Q200-11	2SD0601ARL	TRANSISTOR	12	
QR100-06	MUN2213	TRANSISTOR-RESISTOR	7	
R3	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
⚠ R4	K5H1023A0001	FUSE	1	
R5	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6,R7	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R8,R9	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R10	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R11	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	D0GD105JA003
R12,13	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R14-17	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R18,19	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R20-22	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	3	
R23	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R24	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R25	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R107	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R110	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R111	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R113	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R114	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R115	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R118	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R119	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R120	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R121-27	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	7	
R200-02	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	3	
R203	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R204,05	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R206	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R207	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R208-10	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	3	
R211	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R212	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R213,14	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R215	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R216	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R217,18	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R219	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R220	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R221,22	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R224	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R225	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R226	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R227,28	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R229	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R230	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R231	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
SW203	VSS0249	SWITCH	1	K0D113A00050
SW205	VSS0250	SWITCH	1	K0D112A00104
SW206	VSS0249	SWITCH	1	K0D113A00050
SW65102	EVQQS307K	SWITCH	1	
SW65105	EVQQS307K	SWITCH	1	
SW65107,08	EVQQS307K	SWITCH	2	
VR1	EVJYM0F15C23	V.RESISTOR 2K	1	
X1	H0J100500016	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VJF1360	DISPLAY HOLDER	1	
	VGQ0458	SPACER	5	
	QJT0015	GND TERMINAL	1	
■ E16	VEP83626A	V JACK P.C.BOARD	1	(RTL)
C1,C2	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3,C4	EEFCD0K330R	E.CAPACITOR 8V 33U	2	
C5,C6	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C7	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C9,10	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C12-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C17,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C19	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C21,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C23,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C25	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C26,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C28	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
D1	MA3062M	DIODE	1	
D3,D4	MA3062M	DIODE	2	
D5	MA716	DIODE	1	
D6	MA142K	DIODE	1	
D7	MA3062M	DIODE	1	
IC1	C0CBADD00003	IC	1	
IC2	XC62DN5002M	IC	1	
J1-J3	K1QBB2AA0005	CONNECTOR	3	
J4	K2HA205A0004	JACK	1	
J5	K1QBB2AA0005	CONNECTOR	1	
L1,L2	VLP0183	COIL	2	J0JKC0000007
L3-L8	VLP0145	COIL	6	
P1,P2	VJS3421A020	CONNECTOR (FEMALE)	2	K1MN20A00027
P3	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016
Q1	XN4501	TRANSISTOR-RESISTOR	1	
Q3,Q4	XN4501	TRANSISTOR-RESISTOR	2	
Q5	2SA1532-B	TRANSISTOR	1	
Q6	XN4501	TRANSISTOR-RESISTOR	1	
Q7	2SC2295	TRANSISTOR	1	
R1	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3,R4	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R7,R8	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R9	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R11,12	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R13,14	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R17-20	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	4	
R21	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R22	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R23	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R26	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R27	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R29	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R30	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R31	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R32	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R33,34	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R35	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R36	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R37,38	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R39	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R40,41	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R42	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R43	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R44	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	1	
SW1	VSS0307	SWITCH	1	K0D122A00105
		MISCELLANEOUS		
	VMP5301	D SUB HOLDER ANGLE	1	
■ E17	VEP84394B	A JACK P.C.BOARD	1	(RTL)
C201-04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
C229-32	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
J201,02	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003
J203,04	K1AB103A0007	CONNECTOR (MALE)	2	
J205,06	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003
J207,08	K1AB103A0007	CONNECTOR (MALE)	2	
L201	VLP0145	COIL	1	
L203	VLP0145	COIL	1	
L205,06	VLP0145	COIL	2	
L208	VLP0145	COIL	1	
L210	VLP0145	COIL	1	
L212	VLP0145	COIL	1	
L214,15	VLP0145	COIL	2	
L217	VLP0145	COIL	1	
L219,20	VLP0145	COIL	2	
L222	VLP0145	COIL	1	
L224,25	VLP0145	COIL	2	
L227	VLP0145	COIL	1	
L229-31	VLP0145	COIL	3	
L233	VLP0145	COIL	1	
L235,36	VLP0145	COIL	2	
L238	VLP0145	COIL	1	
L240	VLP0145	COIL	1	
P201	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
■ E18	VEP86344A	KEY P.C.BOARD	1	(RTL)
P301	VJS2582B018	CONNECTOR (FEMALE)	1	K1MN18B00028
R301,02	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R303	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R304	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R305	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R306	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R307	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R308	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R309	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R310	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R311	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R312	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R313	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R314	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R315	ERJ14YJ181	M.RESISTOR CH 1/4W 180	1	
SW301	VST0331	SWITCH	1	K0C112B00006
SW302	VSP0853A000	SWITCH	1	K0F111A00235
SW303	VSP0792	SWITCH	1	K0F111A00280
SW304	K0F111A00426	SWITCH	1	
SW305	VSP0791	SWITCH	1	K0F111A00279
SW306	VSP0790	SWITCH	1	K0F111A00278
SW307	VSP0793	SWITCH	1	K0F111A00281
SW308	VSP0789	SWITCH	1	K0F111A00283
■ E19	VEP86346A	REC VR P.C.BOARD	1	(RTL)
P65401	VJP1610T	CONNECTOR (MALE)	1	K1KA06B00059
VR65401,02	EVU023003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0E69	REC VR CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E20	VEP86347A	PB VR P.C.BOARD	1	(RTL)
P65301	VJP1611T	CONNECTOR (MALE)	1	K1KA07B00032
VR65301,02	EVU023006B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0E70	PB VR CABLE	1	
■ E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	(RTL)
C66000	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C66001	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C66002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C66003	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
IC66000	TL7705CPSB	IC	1	C0EBS0000002
P66001,02	VJS3537A024G	CONNECTOR (FEMALE)	2	K1MN24A00027
P66003	VJP1599T	CONNECTOR (MALE)	1	K1KA06A00125
P66004	VJP1600T	CONNECTOR (MALE)	1	K1KA07A00066
P66005	K1KA03A00017	CONNECTOR (MALE)	1	
R66000	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R66001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
■ E22	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	
■ E23	VEP82249B	SERVO P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C5	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C6	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C9,10	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C11,12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C16	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C17,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C19,20	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	2	
C21-24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C28,29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C30	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C100	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C101-04	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	4	
C109-11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C112-15	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C116,17	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C200	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C209,10	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C211	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C218	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C219,20	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C222	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C300-03	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C304	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C305,06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C307	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C308-14	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C315,16	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C317-21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C322	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C323	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C324,25	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C326,27	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C328	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C350-60	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	11	
C400,01	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C403-06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C407,08	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C409	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C410,11	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	2	
C412-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C417,18	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C450,51	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	F1K1C105A026
C452,53	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C454,55	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C456-58	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C700-02	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	F1J1H103A010
C703	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C704	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C705	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C706	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C707	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C708,09	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C710	F1K0J1060002	C.CAPACITOR CH6.3V 10U	1	
C711,12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C713-15	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C716	F1K0J1060002	C.CAPACITOR CH6.3V 10U	1	
C717,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C719	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C720	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C721	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C722,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C724	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C725	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C726,27	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C800-06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C807	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C808	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C809	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C810	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C811	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C812-14	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C815	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C816	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C817,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C819,20	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C900	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C901	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C902	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C903	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C904,05	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C906	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C907	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C908	EEVHB1E330P	E.CAPACITOR 25V 33U	1	
C909	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C910	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C911	EEVHB1E330P	E.CAPACITOR 25V 33U	1	
C5001,02	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C5003,04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C5005	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C5006	EEVHB1E470P	E.CAPACITOR 25V 47U	1	
C5007,08	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C5009,10	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C5011,12	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C5013,14	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C5015,16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C6001	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6002	VCE0180	E.CAPACITOR 25V 100U	1	F2G1E1010003
C6003,04	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C6005	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6006,07	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C6008,09	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C6010-12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C6013	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6014	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C6015	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6016	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6017	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6018-20	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C6021,22	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	F1K1C105A026
D1-D4	MA8075-H	DIODE	4	
D5,D6	MA142K	DIODE	2	
D8	MA147	DIODE	1	
D300-02	MA147	DIODE	3	
D403,04	MA142K	DIODE	2	
D405-07	MA147	DIODE	3	
D408	MA142K	DIODE	1	
D450,51	MA142K	DIODE	2	
D800	MA142WK	DIODE	1	
D801	MA142K	DIODE	1	
D802-05	MA142WK	DIODE	4	
D806	MA147	DIODE	1	
D807,08	MA142WK	DIODE	2	
D809	MA142WA	DIODE	1	
D810	MA8051-M	DIODE	1	
D811	MA8082-H	DIODE	1	
D812	MA142WK	DIODE	1	
D813	MA142K	DIODE	1	
D814	MAZ80330HL	DIODE	1	
D815	MA8039-H	DIODE	1	MAZ80390HL
D5001,02	MA2J72800L	DIODE	2	
D5003,04	MA2Q73600L	DIODE	2	
D6001,02	MA2J72800L	DIODE	2	
D6003,04	MA2Q73600L	DIODE	2	
D6005	MA142K	DIODE	1	
IC1	TC4052BF	IC	1	
IC2	C0ABBB000179	IC	1	
IC3	C0JBAZ000994	IC	1	
IC4	TC4052BF	IC	1	
IC5-C8	C0ABBB000179	IC	4	
IC9,10	C0ABBB000184	IC	2	
IC11,12	C0BBBA000044	IC	2	
IC13	C0JBAZ000994	IC	1	
IC17	C0ABBB000184	IC	1	
IC20	C0BBBA000044	IC	1	
IC23	C0JBAB000397	IC	1	
IC24	C0JBAZ001121	IC	1	
IC26-28	C0JBAZ001121	IC	3	
IC29	C0JBAZ001003	IC	1	
IC33-35	C0ABBB000179	IC	3	
IC36,37	C0ABBA000075	IC	2	
IC38	C0BBBA000044	IC	1	
IC41	C0BBBA000044	IC	1	
IC42	C0ABBB000184	IC	1	
IC46	C0JBAF000487	IC	1	
IC47,48	C0JBAM000111	IC	2	
IC49	C0JBAZ001120	IC	1	
IC50	C0JBAM000111	IC	1	
IC51	C0JBAZ001120	IC	1	
IC52	C0JBAM000111	IC	1	
IC53	C0ABBA000075	IC	1	
IC54	C0BBBA000044	IC	1	
IC302	MN1030F04KHF	IC	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC350	X9288L7T144	IC	1	
IC351	X9144L7T100	IC	1	
IC400	M62370GP	IC	1	C0FBBD000082
IC700	AN3890FBS	IC	1	
IC701	TB6519F	IC	1	C0GBY0000011
IC900	C0CBABD00005	IC	1	
IC5001,02	MN13821-S	IC	2	
IC6001	TL1451CNS	IC	1	C0DBAMA00001
ID0	VVVSI4281A	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4289A	SOFTWARE	1	DOWNLOAD ONLY
J900-02	K4CD01000007	CABLE TERMINAL	3	
L900-04	VLF1151A132	COIL	5	
L5001,02	VLQ0407120M	COIL 12UH	2	G0A120HA0007
L5003,04	VLQ0650M151	COIL 150UH	2	G1C151MA0016
L6001,02	VLQ0650M151	COIL 150UH	2	G1C151MA0016
P300	VJS3791B020	CONNECTOR (FEMALE)	1	
P350	K1KA08B00147	CONNECTOR (FEMALE)	1	
P900,01	K1MN40A00007	CONNECTOR	2	
P902	K1KA08A00119	CONNECTOR (MALE)	1	
P903	K1KBA0A00084	CONNECTOR (FEMALE)	1	
Q450,51	2SD601A	TRANSISTOR	2	
Q700	PU3210	TRANSISTOR	1	
Q701	PU3110	TRANSISTOR	1	
Q702	2SB1073-R	TRANSISTOR	1	
Q703	2SD1119-R	TRANSISTOR	1	
Q704	2SB1073-R	TRANSISTOR	1	
Q705	2SD1119-R	TRANSISTOR	1	
Q706	2SB1073-R	TRANSISTOR	1	
Q707	2SD1119-R	TRANSISTOR	1	
Q800	2SB710A	TRANSISTOR	1	
Q801,02	2SB1073-R	TRANSISTOR	2	
Q5001,02	2SD1819A-R	TRANSISTOR	2	
Q5003	2SB1174-Q	TRANSISTOR	1	2SB11740Q
Q5004	2SB1073	TRANSISTOR	1	
Q5005,06	2SD1819A-R	TRANSISTOR	2	
Q6001,02	2SB1174-Q	TRANSISTOR	2	2SB11740Q
QR1-R4	UNR521300L	TRANSISTOR	4	
QR9	UNR521300L	TRANSISTOR	1	
QR700	UNR521300L	TRANSISTOR	1	
QR701	UN5217	TRANSISTOR-RESISTOR	1	
QR702	UNR521300L	TRANSISTOR	1	
QR703	UNR521400L	TRANSISTOR-RESISTOR	1	
QR800	UNR521400L	TRANSISTOR-RESISTOR	1	
QR801	UNR511300L	TRANSISTOR	1	
QR802	UNR521400L	TRANSISTOR-RESISTOR	1	
QR803	UNR521300L	TRANSISTOR	1	
QR806	UNR521300L	TRANSISTOR	1	
QR807,08	UNR521400L	TRANSISTOR-RESISTOR	2	
QR809	UNR521300L	TRANSISTOR	1	
QR810	UNR511300L	TRANSISTOR	1	
QR811-15	UNR521400L	TRANSISTOR-RESISTOR	5	
QR816	UNR511300L	TRANSISTOR	1	
QR5001,02	UNR521300L	TRANSISTOR	2	
QR6001,02	UNR511100L	TRANSISTOR	2	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R8	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R9	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R10	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R11	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R13	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R14	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R15	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R16	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R17	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R19	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R21	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R22	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R23	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R24	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R25	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R28	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R29	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R30	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R33	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R34	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R35	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R36	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R40,41	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	2	
R42,43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R46,47	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R49	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R51	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R54	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R55	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R56	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R57,58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R59	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R100	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R101	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R102	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R103	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R104	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R105	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R106	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R107	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R108	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R109	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R110	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R111	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R112	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R113	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R114	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R115	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R116-19	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	4	
R120,21	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R122-25	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R126-29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R130-33	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R134-37	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	4	
R138	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R139	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R140	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R141	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R142,43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R144,45	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R146-49	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	4	
R201	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R202	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R203	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R204	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R209	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R210	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R211	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R212	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R213,14	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R218,19	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R220,21	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R226,27	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R234,35	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R238,39	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R240,41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R242,43	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R244,45	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R300	EXBV8V470J	COMBI.R-R 47	1	
R301,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R303	EXBV8V470J	COMBI.R-R 47	1	
R304-06	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R307-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R310	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R311	EXBV8V473J	COMBI.R-R 47K	1	
R312	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R313	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R315,16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R317	EXBV8V101J	COMBI.R-R 100	1	
R318	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R320	EXBV8V470J	COMBI.R-R 47	1	
R321	EXBV8V473J	COMBI.R-R 47K	1	
R322,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R324	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R327	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R328	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R329	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R330-35	EXBV8V470J	COMBI.R-R 47	6	
R336	EXBV8V473J	COMBI.R-R 47K	1	
R337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R343	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R350	EXBV8V102J	COMBI.R-R 1K	1	
R351	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R352	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R354	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R357	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R358	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R359,60	EXBV8V470J	COMBI.R-R 47	2	
R361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R362	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R365	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R366,67	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R368	EXBV8V470J	COMBI.R-R 47	1	
R369	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R370	ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R400,01	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R402,03	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	2	
R407-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R410,11	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R412,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R414,15	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R417	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R419	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R420,21	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R422	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R423	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R424-26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R428	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R429	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R430	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R432	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R450,51	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R452	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R453,54	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R455	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R456-59	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R460,61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R700-02	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	3	
R703	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R704	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R705	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R706,07	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R708	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R709	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R710,11	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R712	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R713	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R714	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R715	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R716-18	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	3	
R719	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R720-22	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	3	
R800	EXBV8V473J	COMBI.R-R 47K	1	
R801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R802	EXBV8V473J	COMBI.R-R 47K	1	
R803	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R804	EXBV8V473J	COMBI.R-R 47K	1	
R805	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R806	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R807	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R808	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R809	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R811	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R812-15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R816	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R818	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R819	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R820	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R823	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R824	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R825	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R826	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R827,28	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R829-33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	D0GB103JA002
R834-36	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	3	
R837,38	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R839	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R840	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R841	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R842	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R843,44	ERJ8GEYJ181	M.RESISTOR CH 1/8W 180	2	
R845,46	ERJ3GEYJ155	M.RESISTOR CH 1/16W 1.5M	2	
R847,48	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	2	
R900	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R907-09	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R5001	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R5002	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R5003	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5004	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R5005-08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5009	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
⚠ R5010	K5H2523A0001	FUSE	1	
R5013,14	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R5015,16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R5017,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5019,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R5021,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5023,24	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5025,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5027-30	ERJ12YJ222	M.RESISTOR CH 1/2W 2.2K	4	
R5031,32	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R6001	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R6003,04	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R6005,06	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R6007,08	ERJ12YJ471	M.RESISTOR CH 1/2W 470	2	
R6009	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6010	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R6011	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R6012	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R6013	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6014	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R6015	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6016	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6017,18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6019	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6020	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6021	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6022,23	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6024	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6025	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R6026	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6027,28	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R6029,30	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R6031	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6032	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6033	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R6034,35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6036	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
TG450	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP104-07	EYF6CU	TEST POINT	4	
TP204,05	EYF6CU	TEST POINT	2	
TP350-53	EYF6CU	TEST POINT	4	
TP371	EYF6CU	TEST POINT	1	
TP409	EYF6CU	TEST POINT	1	
TP800,01	EYF6CU	TEST POINT	2	
TP900	EYF6CU	TEST POINT	1	
X300	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

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ELECTRICAL REPLACEMENT PARTS LIST
FOR AJ-HD1200AE/AMC

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83624B	REC PB P.C.BOARD	1	(RTL)
■ E2	VEP83625B	V OUT SYS P.C.BOARD	1	(RTL)
■ E4	VEP85214B	RF/EQ P.C.BOARD	1	(RTL)
■ E5	VEP85215A	RF/CUE P.C.BOARD	1	(RTL)
■ E6	VEP84393B	APROC P.C.BOARD	1	(RTL)
■ E7	VEP84368B	A I/O P.C.BOARD	1	(RTL)
■ E9	VEP82250A	MECHA I/F P.C.BOARD	1	(RTL)
■ E10	VEP81203E	POWER 1 P.C.BOARD	1	(RTL)
■	VEP81233A	SUB POWER 1 P.C.BOARD	1	(RTL)FOR VEP81203E
■ E11	VEP81219B	POWER 2 P.C.BOARD	1	(RTL)
■ E12	VEP81232B	POWER 3 P.C.BOARD	1	(RTL)
■ E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	(RTL)
■ E14	VEP80C73B	MOTHER P.C.BOARD	1	(RTL)
■ E15	VEP86343A	FRONT P.C.BOARD	1	(RTL)
■ E16	VEP83626A	V JACK P.C.BOARD	1	(RTL)
■ E17	VEP84394B	A JACK P.C.BOARD	1	(RTL)
■ E18	VEP86344A	KEY P.C.BOARD	1	(RTL)
■ E19	VEP86346A	REC VR P.C.BOARD	1	(RTL)
■ E20	VEP86347A	PB VR P.C.BOARD	1	(RTL)
■ E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	(RTL)
■ E22	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
■ E23	VEP82249B	SERVO P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83624B	REC PB P.C.BOARD	1	(RTL)
C1,C2	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C3,C4	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C5,C6	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C7,C8	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C9,10	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	F1H1H102A009
C11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C12	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C13	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C14-17	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	4	
C18-26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C27-31	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	5	
C50-73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	24	
C100-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	15	
C150-65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C166,67	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2	
C168,69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C170	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C171	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C172	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C173	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C174	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C175-84	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C200	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C201	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C202	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C203-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C250,51	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C252	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C253,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C255	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C256	ECUX1C184KBN	C.CAPACITOR CH 16V 0.18U	1	
C257-69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	13	
C290	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C300,01	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C302-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C370-73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C374	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C375,76	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C377	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C378	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C379	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C380-92	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	13	
C450	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C452	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C457-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C500-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	11	
C511	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	
C550	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C551	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C552-57	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C558	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C559	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C561-81	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	21	
C650,51	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C652	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C653	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C654-58	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C659	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C660,61	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C662,63	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C664,65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C670	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D150,51	MA3J14300L	DIODE	2	
D650	LN1271RAL	DIODE	1	
FL500,01	EZAST33AAAJ	FILTER	2	
IC1,C2	C0CBABD00005	IC	2	
IC3	DS90CR217MTD	IC	1	C0ZBZ0000466

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4	DS90CR218MTD	IC	1	C0ZBZ0000468
IC5	C0CBAAD00023	IC	1	
IC50,51	C3HBKG000002	IC	2	
IC52	C3HBKZ000001	IC	1	
IC53	C1ZBZ0002371	IC	1	
IC100	C1AB00001751	IC	1	
IC101,02	C3HBKZ000001	IC	2	
IC150	MB87J1460	IC	1	C1AB00001232
IC151,52	C3ABQG000045	IC	2	
IC153	C0JBAZ000279	IC	1	
IC154	C0CBBDB00004	IC	1	
IC155	C0CBADD00003	IC	1	
IC156	C0ABEB000017	IC	1	
IC157,58	C0JBAZ001958	IC	2	
IC200	L7A1644	IC	1	C1AA00000231
IC201,02	MN47V07AF	IC	2	
IC250,51	MN673797A	IC	2	
IC252	BH7086KV	IC	1	C1ZBZ0001649
IC253	C0JBAB000422	IC	1	
IC254	C0JBAB000350	IC	1	
IC300	C1ZBZ0002371	IC	1	
IC370	C0CBABD00005	IC	1	
IC371	C3ABRG000011	IC	1	
IC372	H1ZYYYYB0004	IC	1	
IC373	C1AB00001590	IC	1	
IC450	C1ZBZ0002212	IC	1	
IC500	C1AB00001589	IC	1	
IC550	C0CBABD00005	IC	1	
IC551	C1ZBZ0002212	IC	1	
IC552	DS90LV047AC	IC	1	
IC553,54	DS90LV048AC	IC	2	
IC555	XC62FP3202P	IC	1	
IC556	C0CBABD00005	IC	1	
IC557	C0JBAZ002080	IC	1	
IC558-60	DS90LV048AC	IC	3	
IC561	DS90LV047AC	IC	1	
IC562	C0JBAZ001958	IC	1	
IC652	C2DBML000004	IC	1	
IC660	C3FBLD000046	IC	1	
ID0	VVVSI4279B	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4284D	SOFTWARE	1	DOWNLOAD ONLY
ID2	VVVSI4285B	SOFTWARE	1	DOWNLOAD ONLY
ID3	VVVSI4233A	SOFTWARE	1	DOWNLOAD ONLY
L1-L6	VLP0183	COIL	6	J0JKC0000007
L250	VLQ0319K150	COIL 15UH	1	G1C150KA0002
L650,51	VLQ0163J470	COIL 47UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	K1KA08B00147	CONNECTOR (FEMALE)	1	
P300	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A00020
P650	K1KA10A00303	CONNECTOR (MALE)	1	
P651	VJS3791B020	CONNECTOR (FEMALE)	1	
QR650	UNR521300L	TRANSISTOR	1	
R1-R4	ERJ3RBD101	M.RESISTOR CH 1/16W 100	4	
R5,R6	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R7	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R8	EXBV8V102J	COMBI.R-R 1K	1	
R14	EXBV8V101J	COMBI.R-R 100	1	
R50-52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R53	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R54-61	D1H833040002	COMBI.R-R 33	8	
R62,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R64	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R66	D1H833040002	COMBI.R-R 33	1	
R67	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R68,69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R71-73	D1H833040002	COMBI.R-R 33	3	
R76	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R77-82	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	6	
R84-86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R87-89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R90-93	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R100,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R104-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R110-15	D1H833040002	COMBI.R-R 33	6	
R116,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R150	D1H833040002	COMBI.R-R 33	1	
R151-55	EXBV8V102J	COMBI.R-R 1K	5	
R156,57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R158,59	D1H833040002	COMBI.R-R 33	2	
R160	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R161	D1H833040002	COMBI.R-R 33	1	
R162,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R164,65	EXBV8V101J	COMBI.R-R 100	2	
R166	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R167	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R168	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R169	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R170-72	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R173	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R174	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R175,76	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R177	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R178,79	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R180	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R181	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R182	VLP0173	COIL	1	J0JGC0000015
R183-86	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R200	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R201	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R202,03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R204	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R205	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R206	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R207,08	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R209,10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R211	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R212	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R213	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R215	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R250,51	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R252-55	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R256	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R257	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R258	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R259	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R260	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R261	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R262	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R263	D1H833040002	COMBI.R-R 33	1	
R264	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R265	D1H833040002	COMBI.R-R 33	1	
R267	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R268	D1H833040002	COMBI.R-R 33	1	
R269,70	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R271,72	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R273,74	D1H833040002	COMBI.R-R 33	2	
R275,76	EXBV8V101J	COMBI.R-R 100	2	
R277-81	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	D0GB103JA002
R282,83	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R284	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R285	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R286,87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R288,89	D1H833040002	COMBI.R-R 33	2	
R290,91	EXBV8V101J	COMBI.R-R 100	2	
R292	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R293-96	EXBV8V102J	COMBI.R-R 1K	4	
R300	EXBV8V101J	COMBI.R-R 100	1	
R301,02	D1H833040002	COMBI.R-R 33	2	
R303	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R304,05	D1H833040002	COMBI.R-R 33	2	
R306	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R307	EXBV8V101J	COMBI.R-R 100	1	
R308,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R310,11	D1H833040002	COMBI.R-R 33	2	
R328-32	D1H833040002	COMBI.R-R 33	5	
R333	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R334-37	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R338-41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R354-57	D1H833040002	COMBI.R-R 33	4	
R358	EXBV8V102J	COMBI.R-R 1K	1	
R359-62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R363-65	D1H833040002	COMBI.R-R 33	3	
R366-69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R370	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R371	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R372	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R373-75	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R376	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R377,78	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R381	EXBV8V473J	COMBI.R-R 47K	1	
R382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R383	EXBV8V101J	COMBI.R-R 100	1	
R384	EXBV8V473J	COMBI.R-R 47K	1	
R385	EXBV8V102J	COMBI.R-R 1K	1	
R386	EXBV8V473J	COMBI.R-R 47K	1	
R387	EXBV8V102J	COMBI.R-R 1K	1	
R388	EXBV8V473J	COMBI.R-R 47K	1	
R389	EXBV8V102J	COMBI.R-R 1K	1	
R390	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R391,92	D1H833040002	COMBI.R-R 33	2	
R393	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R394	EXBV8V101J	COMBI.R-R 100	1	
R396-00	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	5	
R401-04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R405	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R406	EXBV8V102J	COMBI.R-R 1K	1	
R407-11	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	5	
R412-15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R416-21	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	6	
R422-25	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R426	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R428,29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R452	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R500	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R501,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R503	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R554	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R555,56	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R558,59	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R562,63	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R566	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R567	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R569	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R571	VLP0173	COIL	1	J0JGC0000015
R575	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R577-79	D1H833040002	COMBI.R-R 33	3	
R580-89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	10	
R590,91	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R592-01	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	10	
R603,04	D1H833040002	COMBI.R-R 33	2	
R608	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R611	VLP0173	COIL	1	J0JGC0000015
R612	EXBV8V102J	COMBI.R-R 1K	1	
R613,14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R615,16	D1H833040002	COMBI.R-R 33	2	
R617	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R618	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R619	D1H833040002	COMBI.R-R 33	1	
R620,21	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R622,23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R624	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R625	D1H833040002	COMBI.R-R 33	1	
R626	EXBV8V102J	COMBI.R-R 1K	1	
R627	D1H833040002	COMBI.R-R 33	1	
R628-30	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R631	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R634,35	D1H833040002	COMBI.R-R 33	2	
R636,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R640	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R641	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R650	EXBV8V102J	COMBI.R-R 1K	1	
R651	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R652	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R653	D1H833040002	COMBI.R-R 33	1	
R654	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R655	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R656	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R657	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R658	D1H833040002	COMBI.R-R 33	1	
R659	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R660,61	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R662	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R663	D1H833040002	COMBI.R-R 33	1	
R664	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R665	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R666	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R667	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R668	D1H833040002	COMBI.R-R 33	1	
R670	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R671	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R672,73	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R674	EXBV8V102J	COMBI.R-R 1K	1	
R676	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R678,79	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R680	EXBV8V473J	COMBI.R-R 47K	1	
R681,82	D1H833040002	COMBI.R-R 33	2	
R684	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
TG1-G7	EYF6CU	TEST POINT	7	
TP50,51	EYF6CU	TEST POINT	2	
TP250,51	EYF6CU	TEST POINT	2	
TP302	EYF6CU	TEST POINT	1	
TP304	EYF6CU	TEST POINT	1	
TP370,71	EYF6CU	TEST POINT	2	
TP378	EYF6CU	TEST POINT	1	
TP381	EYF6CU	TEST POINT	1	
TP450	EYF6CU	TEST POINT	1	
TP507,08	EYF6CU	TEST POINT	2	
X150	VSX0907	CRYSTAL OSCILLATOR	1	H4G1805A0003
X550	H1A3715B0001	CRYSTAL OSCILLATOR	1	
X551	H1A3705B0001	CRYSTAL OSCILLATOR	1	
X650	H0J921400004	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E2	VEP83625B	V OUT SYS P.C.BOARD	1	(RTL)
C1-C5	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C6-13	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	8	
C30,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C32	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C33	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C34	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C35-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	19	
C54	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C55,56	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C57	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C150,51	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C152-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C155,56	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C157-68	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C230-47	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	18	
C300-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C304,05	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C306-08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C309	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C310	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C311-19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C320-22	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	3	
C327	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C329	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C331	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C332-40	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C341-43	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	3	
C344-46	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C347-51	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	5	
C352-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C355	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C356	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C357	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C358	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C359	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C360	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C361	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C362	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C363	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C364,65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C430,31	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C432,33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C434	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C435-39	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C440	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C441	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C442	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C443	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C444	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C445	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
C446	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
C447	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C449	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C450-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C454	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C500,01	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C502,03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C504	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C506,07	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C508	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C509,10	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C511	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C512	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C513,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C515	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C518	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C519	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C520,21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C522,23	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C524-31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C535	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C600-02	VCK0152	C.CAPACITOR CH 16V 10U	3	F1L1C1060016
C603-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C607	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C608-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C615	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C616	VCK0152	C.CAPACITOR CH 16V 10U	1	F1L1C1060016
C617-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C621	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C622	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	F1J1H561A025
C623	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C624	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C625	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C626	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C627	VCK0152	C.CAPACITOR CH 16V 10U	1	F1L1C1060016
C628	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C629	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C630-33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C634	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C635	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D430	MA142K	DIODE	1	
D500-03	MA3J14300L	DIODE	4	
D505-07	MA3J14300L	DIODE	3	
D508	LN1271RAL	DIODE	1	
D509	MA3J14300L	DIODE	1	
D600-05	MA3J14300L	DIODE	6	
FL300-02	J0E3005B0002	FILTER	3	
FL430	VLF1354	FILTER	1	
IC30	C1ZBZ0002319	IC	1	
IC31	IDTLVC16245F	IC	1	
IC33	IDTLVC16245F	IC	1	
IC36	C0JBAZ001880	IC	1	
IC37	C0CBABD00005	IC	1	
IC38	DS90CR218MTD	IC	1	C0ZBZ0000468
IC39	DS90LV048AC	IC	1	
IC40,41	C3ABQG000045	IC	2	
IC42	C0JBAZ001880	IC	1	
IC45	C3ABQG000045	IC	1	
IC150	C1ZBZ0002432	IC	1	
IC154	DS90CR217MTD	IC	1	C0ZBZ0000466
IC230	C1ZBZ0002432	IC	1	
IC232,33	C3ABRG000011	IC	2	
IC236	C1AB00001228	IC	1	
IC300,01	C0CBAAD00023	IC	2	
IC302	C1AB00001858	IC	1	
IC303-05	AD8055AR	IC	3	C0ABGB000013
IC306	LT1129CS8	IC	1	
IC307	LT1175CS8	IC	1	
IC308,09	TC7W53FU	IC	2	
IC310	ADV7128KR80	IC	1	
IC311	AD589JR	IC	1	
IC312	LT1129CS8	IC	1	
IC313	AD8184AR	IC	1	
IC430	C0JBAA000175	IC	1	
IC431	ADV7128KR80	IC	1	
IC432	AD589JR	IC	1	
IC433	AD8055AR	IC	1	C0ABGB000013
IC434	NJM2534V	IC	1	
IC500	C2DBML000004	IC	1	
IC501	C0EBE0000213	IC	1	
IC502	C0JBAA000174	IC	1	
IC503	C0JBAZ000851	IC	1	
IC504	C0JBAB000350	IC	1	
IC600	C3FBMD000050	IC	1	
IC601	TA75W558FU	IC	1	C0ABBA000042
IC602	C0JBAZ001713	IC	1	
IC604,05	TC7WH125FU	IC	2	
IC606	C0BBBB000006	IC	1	
IC610	C0CBADD00003	IC	1	
IC611	C1AB00000936	IC	1	
IC613	TC7WH125FU	IC	1	
IC614	C0JBAZ001121	IC	1	
IC617	TC7WH125FU	IC	1	
IC619	C0JBAZ001121	IC	1	
IC621	NJM2068MD	IC	1	C0ABBB000031
IC623	C0CBADD00003	IC	1	
IC628	SN75C1168NS	IC	1	
IC629	XC62DN5002M	IC	1	
ID0	VVVSI4280B	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4286D	SOFTWARE	1	DOWNLOAD ONLY
ID2	VVVSI4233A	SOFTWARE	1	DOWNLOAD ONLY
L1-L5	VLP0183	COIL	5	J0JKC0000007

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L311-14	VLQ0319K1R0	COIL 1.0UH	4	
L430	VLQ0163J180	COIL 18UH	1	G1C180J00001
L431	VLQ0163J120	COIL 12UH	1	G1C120J00001
L500,01	VLQ0163J470	COIL 47UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P150	VJS4064N160E	CONNECTOR (FEMALE)	1	K1KAG0A00006
P500	K1KA10A00303	CONNECTOR (MALE)	1	
P501	VJS3791B020	CONNECTOR (FEMALE)	1	
Q300-02	2SA1532-B	TRANSISTOR	3	
Q303-05	2SD601A-R	TRANSISTOR	3	
Q306-08	XN4501	TRANSISTOR-RESISTOR	3	
Q430	2SA1532-B	TRANSISTOR	1	
Q431	2SD601A-R	TRANSISTOR	1	
Q432	XN4501	TRANSISTOR-RESISTOR	1	
Q433-36	2SA1532-B	TRANSISTOR	4	
Q437	2SD601A-R	TRANSISTOR	1	
QR500-03	UNR521300L	TRANSISTOR	4	
R1	EXBV8V102J	COMBI.R-R 1K	1	
R30-35	D1H833040002	COMBI.R-R 33	6	
R36-46	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	11	
R47,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R49,50	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R52-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R57	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R59,60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R62,63	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R64	D1H833040002	COMBI.R-R 33	1	
R65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R66,67	D1H833040002	COMBI.R-R 33	2	
R68	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R69-72	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R73-76	D1H833040002	COMBI.R-R 33	4	
R77	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R78,79	D1H833040002	COMBI.R-R 33	2	
R80,81	EXBV8V102J	COMBI.R-R 1K	2	
R82	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R83,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R85,86	D1H833040002	COMBI.R-R 33	2	
R87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R90-93	ERJ3RBD101	M.RESISTOR CH 1/16W 100	4	
R94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R95,96	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R99	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R100	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R101,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R103,04	D1H833040002	COMBI.R-R 33	2	
R106-09	D1H833040002	COMBI.R-R 33	4	
R110	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R111	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R113	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R114	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R120	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R150-52	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R153	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R154-56	D1H833040002	COMBI.R-R 33	3	
R157,58	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R159-63	D1H833040002	COMBI.R-R 33	5	
R164	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R165-69	D1H833040002	COMBI.R-R 33	5	
R170	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R171	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R177-79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R185,86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R187	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R188	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R190-92	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R193	D1H833040002	COMBI.R-R 33	1	
R230-32	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R233	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R234,35	D1H833040002	COMBI.R-R 33	2	
R236	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R237,38	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R239,40	D1H833040002	COMBI.R-R 33	2	
R241,42	EXBV8V102J	COMBI.R-R 1K	2	
R243-47	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R248,49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R250	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R251	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R252	D1H833040002	COMBI.R-R 33	1	
R253-57	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R258	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R300	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R301-04	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R306,07	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R310,11	ERJ3RBD331	M.RESISTOR CH 1/16W 330	2	
R312	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R313,14	ERJ3RED100	M.RESISTOR CH 1/16W 10	2	
R315-17	ERJ3RBD301	M.RESISTOR CH 1/16W 300	3	
R321-23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R324-26	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R327	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R328,29	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R330	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R331	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R332	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R333	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	1	
R334	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R335-38	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	4	
R339-41	ERJ3RBD241	M.RESISTOR CH 1/16W 240	3	
R342-44	ERJ3RED910	M.RESISTOR CH 1/16W 91	3	
R345	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R347	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R349	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R351	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R352	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R353	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R354	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R355	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R356	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R357	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R358	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R359	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R360-62	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	3	
R375-77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R378,79	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	2	
R380	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R382	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R383	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R384	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R385	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R386	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R387	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R430,31	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R432	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R433	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R434	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R435	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R436,37	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R438	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R439	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R440	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R441	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R442	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R443	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R444	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R445	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R446	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R447	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R448	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R449	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R450	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R451	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R454	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R457,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R459	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R460	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R461	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R462,63	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R464	ERJ3RED300	M.RESISTOR CH 1/16W 30	1	
R465	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R466	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R468	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R469	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R470	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R500	D0GZ103J0001	M.RESISTOR CH 10K	1	
R501	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R502	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R503	D1H833040002	COMBI.R-R 33	1	
R504	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R505	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R506-11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R513	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R515	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R516	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R517	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R518	D1H833040002	COMBI.R-R 33	1	
R519-22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R524	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R525	D0GZ103J0001	M.RESISTOR CH 10K	1	
R526	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R527	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R528	D1H833040002	COMBI.R-R 33	1	
R529	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R530,31	D1H833040002	COMBI.R-R 33	2	
R532	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R533	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R534,35	D1H833040002	COMBI.R-R 33	2	
R537	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R538	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R539	D1H833040002	COMBI.R-R 33	1	
R543-47	D1H833040002	COMBI.R-R 33	5	
R548,49	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R550	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R551	EXBV8V102J	COMBI.R-R 1K	1	
R552	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R553-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R559,60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R561	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R562	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R563	EXBV8V473J	COMBI.R-R 47K	1	
R564	D1H833040002	COMBI.R-R 33	1	
R565	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R566	D1H833040002	COMBI.R-R 33	1	
R567	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R568	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R569	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R570	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R571,72	D0GZ103J0001	M.RESISTOR CH 10K	2	
R573	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R600	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R601	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R602	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R603	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R604	EXBV8V473J	COMBI.R-R 47K	1	
R605	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R606	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R607	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609,10	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R611	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R612,13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R614	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R615	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R616	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R617	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R618,19	EXBV8V473J	COMBI.R-R 47K	2	
R621	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R622	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R623	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R625	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R626	D1H833040002	COMBI.R-R 33	1	
R627	EXBV8V473J	COMBI.R-R 47K	1	
R628	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R629,30	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R632	D1H833040002	COMBI.R-R 33	1	
R633	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R634	EXBV8V473J	COMBI.R-R 47K	1	
R635,36	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R637	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R638	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R639	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R640	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R641	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R642	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R643	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R644	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R645	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R646	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R647	D1H833040002	COMBI.R-R 33	1	
R648	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R649	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R650	EXBV8V102J	COMBI.R-R 1K	1	
R651	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R652	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R653	EXBV8V473J	COMBI.R-R 47K	1	
R654	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R655	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R656-59	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R660-62	D1H833040002	COMBI.R-R 33	3	
R663,64	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
RY1	VSY2176	RELAY	1	K6B2CDA00045
SW1	VSS0367-02B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
VR300-07	EVM7JGA00B13	V.RESISTOR 1K	8	
VR430,31	EVM7JGA00B13	V.RESISTOR 1K	2	
X500	H0J921400004	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E4	VEP85214B	RF/EQ P.C.BOARD	1	(RTL)
C1-C4	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C6	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C7	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C8-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C101,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C103-06	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C108	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C110-22	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	13	
C123-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C201,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C205-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C211,12	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C213,14	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	2	
C215	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C301-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C311	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C312,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C315-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C319	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C320	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C321	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C322	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C323	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C324	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C325	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C326-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C351,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C353	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C354	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C355	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C356	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C359	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C361-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C401-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C411	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C412,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C415-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C419	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C420	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C421	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C422	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C423	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C424	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C425	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C426-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C451,52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C453	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C454	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C455	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C456	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C459	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C461-63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C501-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C511	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C512,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C515-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C519	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C520	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C521	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C522	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C523	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C524	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C525	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C527-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C551-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C561	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C562,63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C565-68	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C569	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C570	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C571	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C572	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C573	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C574	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C575	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C577-80	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C601-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C611	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C612,13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C615-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C619	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C620	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C621	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C622	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C623	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C624	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C625	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C627-30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C701	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C702	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C703-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C708-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C711	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C731	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C732	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C733-36	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C738-40	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C741	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C761	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	1	
C762	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C763-66	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C768-70	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C771	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C801	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C802	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C803-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C806	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C807-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C819	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C820-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C826	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C827-31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C834,35	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C836	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C837,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C901	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C902	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C903-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C906	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C907-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C919	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C920-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C926	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C928	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C930,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C935	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C937,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C939,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C941,42	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1001	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1002	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1003-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1006	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1007-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C1019	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1020-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C1026	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1028	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1030,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1035	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1037,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1101	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1102	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1103-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1106	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1107-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C1119	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1120-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1126	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1128	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1130,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1135	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1137,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1139,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1201	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1202	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1203-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1206	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C1207-18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1219	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C1220-24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C1226	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C1228	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1230,31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1235	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1237,38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C1239,40	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1301-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	10	
C1311-13	F1L1A2260013	C.CAPACITOR CH 10V 22U	3	
C1314	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C1315	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
C1317-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1321	F1L1A2260013	C.CAPACITOR CH 10V 22U	1	
C1323,24	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C1325	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1327-29	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C1330	EEFCD0J330R	E.CAPACITOR 6.3V 33U	1	
C1331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D1	MA3J14300L	DIODE	1	
D301	MA3S132E0L	DIODE	1	
D401	MA3S132E0L	DIODE	1	
D501	MA3S132E0L	DIODE	1	
D551	MA3S132E0L	DIODE	1	
D601	MA3S132E0L	DIODE	1	
D1301	MA142K	DIODE	1	
D1302	MA29W-A	DIODE	1	MA2C029WA
IC1	C0JBAA000102	IC	1	
IC2	C0JBAZ000525	IC	1	
IC3	TVHC244FT	IC	1	
IC4,C5	TVHC164FT	IC	2	
IC6	TVHC126FT	IC	1	
IC7	TC74VHC32F	IC	1	C0JBAE000081
IC8	C0JBAB000196	IC	1	
IC9	TVHC00FT	IC	1	
IC101,02	C0JBAS000075	IC	2	
IC103	C0ABEB000023	IC	1	
IC104	M62370GP	IC	1	C0FBBD000082
IC105-07	C0ABFB000012	IC	3	
IC201	TVHC126FT	IC	1	
IC202	DS90LV048AC	IC	1	
IC203	TLCX04F	IC	1	
IC204	C0JBAF000224	IC	1	
IC206	DS90LV047AC	IC	1	
IC301	NJM1496V	IC	1	
IC302	UPC1663GV	IC	1	C0ABAB000078
IC303	C0JBAS000075	IC	1	
IC351	UPC1663GV	IC	1	C0ABAB000078
IC401	NJM1496V	IC	1	
IC402	UPC1663GV	IC	1	C0ABAB000078
IC403	C0JBAS000075	IC	1	
IC451	UPC1663GV	IC	1	C0ABAB000078
IC501	NJM1496V	IC	1	
IC502	UPC1663GV	IC	1	C0ABAB000078
IC551	NJM1496V	IC	1	
IC552	UPC1663GV	IC	1	C0ABAB000078
IC601	NJM1496V	IC	1	
IC602	UPC1663GV	IC	1	C0ABAB000078
IC701	UPC1663GV	IC	1	C0ABAB000078
IC731	UPC1663GV	IC	1	C0ABAB000078
IC761	UPC1663GV	IC	1	C0ABAB000078
IC801	MN673798	IC	1	
IC802	C0ABBB000158	IC	1	
IC803	DS90LV047AC	IC	1	
IC804	C0JBAF000315	IC	1	
IC805,06	C0JBAZ000852	IC	2	
IC901	MN673798	IC	1	
IC902	C0ABBB000158	IC	1	
IC904	C0ABFB000012	IC	1	
IC1001	MN673798	IC	1	
IC1002	C0ABBB000158	IC	1	
IC1003	DS90LV047AC	IC	1	
IC1101	MN673798	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1102	C0ABBB000158	IC	1	
IC1201	MN673798	IC	1	
IC1202	C0ABBB000158	IC	1	
IC1203	DS90LV047AC	IC	1	
IC1301	LT1175CS8	IC	1	
IC1303	LT1086CM	IC	1	C0CBAYG00001
IC1304,05	C0CBADD00003	IC	2	
L301	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L302	VLQ0163JR68	COIL 0.68UH	1	G1CR68J00004
L351	VLQ0163J8R2	COIL 8.2UH	1	
L352	VLQ0163J2R2	COIL 2.2UH	1	G1C2R2J00009
L353	VLQ0163J1R5	COIL 1.5UH	1	
L354	VLQ077168NM	COIL	1	
L401	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L402	VLQ0163JR68	COIL 0.68UH	1	G1CR68J00004
L451	VLQ0163J8R2	COIL 8.2UH	1	
L452	VLQ0163J2R2	COIL 2.2UH	1	G1C2R2J00009
L453	VLQ0163J1R5	COIL 1.5UH	1	
L454	VLQ077168NM	COIL	1	
L501	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L502	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L551	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L552	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L601	VLQ0163JR27	COIL 0.27UH	1	G1CR27J00002
L602	VLQ0163J1R2	COIL 1.2UH	1	G1C1R2J00002
L701	VLQ0163J5R6	COIL 5.6UH	1	
L731	VLQ0163J5R6	COIL 5.6UH	1	
L761	VLQ0163J5R6	COIL 5.6UH	1	
L1301-05	VLP0183	COIL	5	J0JKC0000007
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	VJS3791B020	CONNECTOR (FEMALE)	1	
P4	K1KA08B00147	CONNECTOR (FEMALE)	1	
Q1	2SB1218A0L	TRANSISTOR	1	
Q2	2SD1819A-R	TRANSISTOR	1	
Q3	XP0431200L	TRANSISTOR	1	
Q201,02	2SC3930	TRANSISTOR	2	
Q203,04	2SD601A	TRANSISTOR	2	
Q205,06	2SB1218A0L	TRANSISTOR	2	
Q301	XP6534	TRANSISTOR-RESISTOR	1	
Q302	2SC3930	TRANSISTOR	1	
Q303	XP6501	TRANSISTOR-RESISTOR	1	
Q304,05	2SD1979	TRANSISTOR	2	
Q306,07	2SC3930	TRANSISTOR	2	
Q351	XP6534	TRANSISTOR-RESISTOR	1	
Q401	XP6534	TRANSISTOR-RESISTOR	1	
Q402	2SC3930	TRANSISTOR	1	
Q403	XP6501	TRANSISTOR-RESISTOR	1	
Q404,05	2SD1979	TRANSISTOR	2	
Q406,07	2SC3930	TRANSISTOR	2	
Q451	XP6534	TRANSISTOR-RESISTOR	1	
Q501	XP6534	TRANSISTOR-RESISTOR	1	
Q502	2SC3930	TRANSISTOR	1	
Q503	XP6501	TRANSISTOR-RESISTOR	1	
Q504,05	2SD1979	TRANSISTOR	2	
Q506,07	2SC3930	TRANSISTOR	2	
Q551	XP6534	TRANSISTOR-RESISTOR	1	
Q552	2SC3930	TRANSISTOR	1	
Q553	XP6501	TRANSISTOR-RESISTOR	1	
Q554,55	2SD1979	TRANSISTOR	2	
Q556,57	2SC3930	TRANSISTOR	2	
Q601	XP6534	TRANSISTOR-RESISTOR	1	
Q602	2SC3930	TRANSISTOR	1	
Q603	XP6501	TRANSISTOR-RESISTOR	1	
Q604,05	2SD1979	TRANSISTOR	2	
Q606,07	2SC3930	TRANSISTOR	2	
Q701	2SC3930	TRANSISTOR	1	
Q702	2SA153200L	TRANSISTOR	1	
Q703	2SD1979	TRANSISTOR	1	
Q731	2SC3930	TRANSISTOR	1	
Q732	2SA153200L	TRANSISTOR	1	
Q733	2SD1979	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q761	2SC3930	TRANSISTOR	1	
Q762	2SA153200L	TRANSISTOR	1	
Q763	2SD1979	TRANSISTOR	1	
Q801	XP0450100L	TRANSISTOR	1	
Q802	2SD1819A-R	TRANSISTOR	1	
Q803	2SB1218A0L	TRANSISTOR	1	
Q901	XP0450100L	TRANSISTOR	1	
Q1001	XP0450100L	TRANSISTOR	1	
Q1101	XP0450100L	TRANSISTOR	1	
Q1201	XP0450100L	TRANSISTOR	1	
Q1301-03	2SB710A	TRANSISTOR	3	
Q1304-06	2SD602A-R	TRANSISTOR	3	
Q1307	2SD601A	TRANSISTOR	1	
QR351,52	UN5212	TRANSISTOR-RESISTOR	2	
QR1302-04	UNR511100L	TRANSISTOR	3	
QR1305-07	UNR521100L	TRANSISTOR	3	
QR1308-10	UNR511100L	TRANSISTOR	3	
R1-R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4,R5	EXBV8V473J	COMBI.R-R 47K	2	
R6	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R7,R8	EXBV8V101J	COMBI.R-R 100	2	
R9	EXBV8V473J	COMBI.R-R 47K	1	
R10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R11	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R12	EXBV8V473J	COMBI.R-R 47K	1	
R13	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R15	EXBV8V473J	COMBI.R-R 47K	1	
R16-18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R19,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R22,23	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R25	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R26	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R27-34	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	8	
R101-03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R104,05	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R106	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R107	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R108-10	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	3	
R112	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R114-26	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	13	
R127,28	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R129,30	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R131,32	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R133	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R134	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R135	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R136	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R137-39	D0GB123JA002	M.RESISTOR CH 1/16W 12K	3	
R140-42	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	3	
R143	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R144	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R145	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R146	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R147	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R148-54	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	7	
R155-58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R159,60	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R161,62	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R163,64	D0GB123JA002	M.RESISTOR CH 1/16W 12K	2	
R165	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R166	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R167	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R168	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R169-71	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	3	
R172	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R173	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R174	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R175-80	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	6	
R181-84	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R202,03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R205-07	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R208-11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R212,13	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R214,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R216-18	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R219	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R220	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R221	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R222-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R225,26	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R227,28	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R229,30	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R231,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R233,34	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R301,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R303,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R305,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R307	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R309,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R311	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R312	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R314	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R315	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R316	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R317	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R318	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R319,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R321,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R323	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R327	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R328,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R330	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R331	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R332	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R333	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R334-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R337	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R351,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R353	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R354	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R357	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R358	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R359	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R360	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R361	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R362	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R363	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R365	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R366	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R367	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R370,71	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R403,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R405,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R407	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R408	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R409,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R411	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R412	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R413	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R414	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R415	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R416	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R417	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R418	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R419,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R421,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R423	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R424,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R426	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R427	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R428,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R430	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R432	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R433	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R434-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R437	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R451,52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R453	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R454	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R457	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R458	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R459	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R460	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R461	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R462	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R464	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R465	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R467	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R470	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R501,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R503,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R505,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R507	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R508	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R509,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R511	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R512	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R513	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R514	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R515	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R516	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R517	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R518	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R519,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R521,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R523	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R527	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R528,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R530	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R532	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R533	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R534-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R537	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R551,52	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R553,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R555,56	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R557	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R558	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R559,60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R561	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R562	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R563	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R564	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R565	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R566	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R567	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R568	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R569,70	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R571,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R573	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R574,75	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R576	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R577	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R578,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R580	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R582	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R583	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R584-86	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R587	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R601,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R603,04	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R605,06	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R607	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R608	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R609,10	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R611	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R612	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R613	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R614	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R615	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R616	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R617	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R618	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R619,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R621,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R623	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R624,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R626	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R627	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R628,29	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R630	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R632	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R633	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R634-36	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R637	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R701	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R702	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R703	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R704	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R705	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R706	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R707	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R708	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R709	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R710	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R711	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R712	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R713	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R716	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R717	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R731	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R732	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R733	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R734	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R735	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R736	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R737	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R738	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R739	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R740	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R741	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R742	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R743	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R746	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R747	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R761	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R762	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R763	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R764	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R765	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R766	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R767	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R768	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R769	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R770	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R771	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R772	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R773	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R776	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R777	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R801	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R802	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R803	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R804	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R805	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R806	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R807	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R811	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R812	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R813	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R818,19	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R820	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R826	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R827	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R828	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R829	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R832	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R833,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R835	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R836	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R837	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R838	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R839	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R840	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R841	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R842	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R843	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R844	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R845	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R846	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R847	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R848	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R849	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R850	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R851-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R855	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R856	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R857	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R858	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R859	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R860	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R861	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R901	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R902	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R903	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R905	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R906	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R907	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R911	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R912	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R920	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R926	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R927	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R928	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R929	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R933,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R935	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R936	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R938	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R950	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R951-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R957	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R959	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R960	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R961	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R962,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R964	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R965	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1002	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1003	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1004	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1005	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1006	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1007	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1011	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1012	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1013,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1017	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1018,19	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R1020	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1026	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1027	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1028	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1029	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1033,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1035	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1036	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1038	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1049	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1050	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1051-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1057	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1059	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1060	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1061	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1101	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1102	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1103	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1105	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1106	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1107	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1111	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1112	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1113,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1117	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1120	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1126	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1127	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1128	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1129	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1133,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1135	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1136	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1138	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1150	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1151-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1157	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1159	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1160	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1161	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1162,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1164	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R1165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1201	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1202	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1203	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R1204	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1205	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1206	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R1207	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1211	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1212	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R1213,14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1216	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1220	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1222-24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1226	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1227	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1228	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1233,34	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1235	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1236	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R1238	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R1249	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1250	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1251-54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R1257	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R1259	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1260	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1261	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1262,63	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R1264	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R1265	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1301	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1302	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R1303	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R1304-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R1307-12	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	6	
R1319-24	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	6	
R1325-27	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R1328-31	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R1332,33	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R1334	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
RY1301	VSY2176	RELAY	1	K6B2CDA00045
SW201,02	VJP2536A003	CONNECTOR (MALE)	2	
TG1,G2	VJR0646	TEST POINT	2	D0X0R0000022
TP1-P7	EYF6CU	TEST POINT	7	
TP101-05	EYF6CU	TEST POINT	5	
TP201-05	EYF6CU	TEST POINT	5	
TP302	EYF6CU	TEST POINT	1	
TP304,05	EYF6CU	TEST POINT	2	
TP402	EYF6CU	TEST POINT	1	
TP404,05	EYF6CU	TEST POINT	2	
TP801,02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	8	
	XYN2+J6	SCREW	2	
	VWZ0212	THERMAL CONDUCTIVE TUBE	5	
	VMP6464	HEAT SINK HOLDER ANGLE A	1	
	VMP6465	HEAT SINK HOLDER ANGLE B	2	
	VSC4609	SHIELD CASE	5	
	VJS1990	CONNECTOR (FEMALE)	2	
■ E5	VEP85215A	RF/CUE P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3,C4	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C5	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C7	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C8,C9	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C10-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C14	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C15,16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C17	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C18,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C20	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C21,22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C101,02	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C103,04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C106	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C107	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C108	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C109	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C110	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C111	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C112	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C113-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C116	EEFCD1C4R7R	E.CAPACITOR 16V 4.7U	1	
C117	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C171,72	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C173,74	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C176	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C177	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C178	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C179	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C180	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C181	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C182	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C183-90	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C251,52	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C253,54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C256	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C257	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C258	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C259	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C260	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C261	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C262	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C263-65	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C266	EEFCD1C4R7R	E.CAPACITOR 16V 4.7U	1	
C267	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C321,22	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	2	
C323,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C326	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C327	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C328	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C329	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C330	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C332	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C333,34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C339-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C401-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C405-08	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C409-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C417	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C420	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C421	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C422,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C431-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C435-38	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C439-45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C447	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C450	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C461-64	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C465-68	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C469-75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C477	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C480	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C481	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C482	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C483	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
C484	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C501-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C505-08	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C509-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C517	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C520	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	1	
C521	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C522,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C531-34	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C535-38	ECJ1VC1H010C	C.CAPACITOR CH 50V 1P	4	
C539-45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C547	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C550	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C561	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C562,63	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C580	ECJ1VC1H181J	C.CAPACITOR CH 50V 180P	1	
C581	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C582,83	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C601-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C606,07	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C608	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C609,10	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C611-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C616,17	F1L1A2260013	C.CAPACITOR CH 10V 22U	2	
C618,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C620	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C4002	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4003	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4004	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4005	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4006	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4007	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4008	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4009,10	F1L2J682A010	C.CAPACITOR CH100V 1P	2	
C4011	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4012	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4013	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4014	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4015	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4016,17	F1L2J682A010	C.CAPACITOR CH100V 1P	2	
C4018	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4020	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4021	ECHU1C822JB	P.CAPACITOR 16V 8200P	1	
C4022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4023	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4024	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4026	F1K2J271A014	C.CAPACITOR CH 10V 270P	1	
C4027	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4028	EEVHP0J470	E.CAPACITOR 6.3V 47U	1	
C4029	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C4030,31	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4032	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4033	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4103,04	ECUX1C394KBN	C.CAPACITOR CH 16V 0.39U	2	
C4105,06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4107-09	ECHU1C104J	P.CAPACITOR 16V 0.1U	3	
C4110,11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4112	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4113,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4115	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4116	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4117	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C4118	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4119	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4121	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4122	EEVHP1E4R7	E.CAPACITOR 25V 4.7U	1	
C4123	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C4124	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4126	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4127	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4128	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4129,30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4131	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4133	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4134	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4135	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4136	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4137	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4139	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4140	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4141	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4142	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4201-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C4207,08	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4209,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4211	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4212	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4213	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4214	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4215	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4216	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4217	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C4218,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4220	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4301	EEVHP1E4R7	E.CAPACITOR 25V 4.7U	1	
C4305,06	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	2	
C4308	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4309,10	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4311	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4313	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4314,15	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	2	
C4316,17	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4320-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C4325-28	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C4329	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4330	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C4334	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C4338,39	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4343	ECUX1C394KBN	C.CAPACITOR CH 16V 0.39U	1	
C4344,45	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4346	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4347	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D101-03	MA152WK	DIODE	3	
D171-73	MA152WK	DIODE	3	
D4001,02	MA142K	DIODE	2	
D4201	MA716	DIODE	1	
D4202	MA157A	DIODE	1	
FL4001	G2A193C00001	COIL	1	
FL4002	VLF1466B223	LINE FILTER	1	
FL4101	VLF1069	FILTER	1	G4ZZ00000278
FL4301-03	VLF1466B223	LINE FILTER	3	
IC1-C3	C0JBAB000541	IC	3	
IC4	TVHC00FT	IC	1	
IC5	C0JBAB000007	IC	1	
IC7-12	TC4S30F	IC	6	C0JBAZ000429
IC101	LT1175CS8	IC	1	
IC251	LT1175CS8	IC	1	
IC401	UPC5102GS030	IC	1	C1ZBZ0001316
IC402	UPC2726T	IC	1	
IC431	UPC5102GS030	IC	1	C1ZBZ0001316
IC432	UPC2726T	IC	1	
IC461	UPC5102GS030	IC	1	C1ZBZ0001316
IC462	UPC2726T	IC	1	
IC501	UPC5102GS030	IC	1	C1ZBZ0001316
IC502	UPC2726T	IC	1	
IC531	UPC5102GS030	IC	1	C1ZBZ0001316
IC532	UPC2726T	IC	1	
IC601,02	C0CBADD00003	IC	2	
IC4001	C0ABBB000124	IC	1	
IC4102	NJM78L09UA	IC	1	C0CBAHC00002
IC4103	C0JBAR000379	IC	1	
IC4104	TA75W558FU	IC	1	C0ABBA000042
IC4105	THC4052FT	IC	1	
IC4106	C1BB00000746	IC	1	
IC4107	C0JBAB000350	IC	1	
IC4108,09	TA75W558FU	IC	2	C0ABBA000042
IC4201	TA75W558FU	IC	1	C0ABBA000042
IC4203	C0DBZGH00001	IC	1	
IC4204	NJM79L05UA	IC	1	C0CBBDC00001
IC4205	TVHC244FT	IC	1	
IC4206	C0CBABC00049	IC	1	
IC4207	C0FBZH000011	IC	1	
IC4209	TA75W558FU	IC	1	C0ABBA000042
IC4302,03	TA75W558FU	IC	2	C0ABBA000042
IC4308	C0JBAR000379	IC	1	
IC4309	TA75W558FU	IC	1	C0ABBA000042
IC4313	TVHT244FT	IC	1	
L101,02	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L171,72	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L251,52	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L321,22	VLQ0163JR33	COIL 0.33UH	2	G1CR33J00002
L401	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L461	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L501	VLQ0163J1R8	COIL 1.8UH	1	G1C1R8J00003
L560,61	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L580,81	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L601-05	VLP0183	COIL	5	J0JKC0000007
L4001	VLQ0651K391	COIL 390UH	1	G1C391KA0013
L4002	VLQ0423J472	COIL 4700UH	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	VJP4064L140	CONNECTOR (MALE)	1	K1KBE0B00003
P2	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P3	VJS3900A024	CONNECTOR (FEMALE)	1	
P4	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P4001	VJP3125B009	CONNECTOR (MALE)	1	K1KA09B00055
Q1	2SA153200L	TRANSISTOR	1	
Q2	XP0431200L	TRANSISTOR	1	
Q3	XP0460100L	TRANSISTOR	1	
Q4,Q5	2SA153200L	TRANSISTOR	2	
Q6	XP0431200L	TRANSISTOR	1	
Q7-Q9	2SA153200L	TRANSISTOR	3	
Q101,02	2SC3935	TRANSISTOR	2	
Q103	XP4506	TRANSISTOR-RESISTOR	1	
Q104	2SC3935	TRANSISTOR	1	
Q106	2SC4536	TRANSISTOR	1	
Q107	2SA153200L	TRANSISTOR	1	
Q108	XP0150400L	TRANSISTOR	1	
Q109	2SK508K512	TRANSISTOR	1	
Q110	2SC4536	TRANSISTOR	1	
Q111	2SA153200L	TRANSISTOR	1	
Q112	XP0150400L	TRANSISTOR	1	
Q113	2SK508K512	TRANSISTOR	1	
Q114	2SC4536	TRANSISTOR	1	
Q116	2SC4536	TRANSISTOR	1	
Q117	2SC3935	TRANSISTOR	1	
Q171,72	2SC3935	TRANSISTOR	2	
Q173	XP4506	TRANSISTOR-RESISTOR	1	
Q174	2SC3935	TRANSISTOR	1	
Q176	2SC4536	TRANSISTOR	1	
Q177	2SA153200L	TRANSISTOR	1	
Q178	XP0150400L	TRANSISTOR	1	
Q179	2SK508K512	TRANSISTOR	1	
Q180	2SC4536	TRANSISTOR	1	
Q181	2SA153200L	TRANSISTOR	1	
Q182	XP0150400L	TRANSISTOR	1	
Q183	2SK508K512	TRANSISTOR	1	
Q184	2SC4536	TRANSISTOR	1	
Q186	2SC4536	TRANSISTOR	1	
Q187	2SC3935	TRANSISTOR	1	
Q251,52	2SC3935	TRANSISTOR	2	
Q254	2SC3935	TRANSISTOR	1	
Q256	2SC4536	TRANSISTOR	1	
Q257	2SA153200L	TRANSISTOR	1	
Q259	2SK508K512	TRANSISTOR	1	
Q260	2SC4536	TRANSISTOR	1	
Q261	2SA153200L	TRANSISTOR	1	
Q263	2SK508K512	TRANSISTOR	1	
Q264	2SC4536	TRANSISTOR	1	
Q266	2SC4536	TRANSISTOR	1	
Q267	2SC3935	TRANSISTOR	1	
Q321,22	2SC3935	TRANSISTOR	2	
Q324	2SC3935	TRANSISTOR	1	
Q326	2SC4536	TRANSISTOR	1	
Q327	2SA153200L	TRANSISTOR	1	
Q329	2SK508K512	TRANSISTOR	1	
Q330	2SC4536	TRANSISTOR	1	
Q331	2SA153200L	TRANSISTOR	1	
Q333	2SK508K512	TRANSISTOR	1	
Q334	2SC4536	TRANSISTOR	1	
Q336	2SC4536	TRANSISTOR	1	
Q337	2SC3935	TRANSISTOR	1	
Q401,02	XP4506	TRANSISTOR-RESISTOR	2	
Q403	XP6534	TRANSISTOR-RESISTOR	1	
Q405	XP6534	TRANSISTOR-RESISTOR	1	
Q431	XP4506	TRANSISTOR-RESISTOR	1	
Q435	XP6534	TRANSISTOR-RESISTOR	1	
Q461,62	XP4506	TRANSISTOR-RESISTOR	2	
Q463	XP6534	TRANSISTOR-RESISTOR	1	
Q464	XP0150400L	TRANSISTOR	1	
Q465	XP6534	TRANSISTOR-RESISTOR	1	
Q501,02	XP4506	TRANSISTOR-RESISTOR	2	
Q503	XP6534	TRANSISTOR-RESISTOR	1	
Q505	XP6534	TRANSISTOR-RESISTOR	1	
Q531	XP4506	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q535	XP6534	TRANSISTOR-RESISTOR	1	
Q560,61	2SC3735	TRANSISTOR	2	
Q580,81	2SC3735	TRANSISTOR	2	
Q601,02	2SB710A	TRANSISTOR	2	
Q4001	2SB779-R	TRANSISTOR	1	
Q4002	2SD1819A-R	TRANSISTOR	1	
Q4003	2SD874-R	TRANSISTOR	1	
Q4004	2SB779-R	TRANSISTOR	1	
Q4005	2SD1819A-R	TRANSISTOR	1	
Q4006	2SD874-R	TRANSISTOR	1	
Q4007	2SD1979	TRANSISTOR	1	
Q4008	2SB792-R	TRANSISTOR	1	
Q4009,10	2SD1149-R	TRANSISTOR	2	
Q4011,12	2SD1979	TRANSISTOR	2	
Q4201	2SD1979	TRANSISTOR	1	
QR601,02	UNR521100L	TRANSISTOR	2	
QR4001,02	UNR511300L	TRANSISTOR	2	
QR4003	UNR521300L	TRANSISTOR	1	
QR4004	UNR511300L	TRANSISTOR	1	
QR4005,06	UNR521300L	TRANSISTOR	2	
QR4007	UNR511300L	TRANSISTOR	1	
QR4201	UNR521300L	TRANSISTOR	1	
QR4202	UNR511300L	TRANSISTOR	1	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	EXBV8V473J	COMBI.R-R 47K	1	
R3,R4	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R5	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6	EXBV8V473J	COMBI.R-R 47K	1	
R7-42	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	36	D0GB103JA002
R101,02	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R103	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R104	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R105,06	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R107-09	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R110,11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R112,13	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R114-17	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	4	
R118,19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R121	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R123	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R124	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R125	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R126	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R127	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R128	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R129	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R130	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R131	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R132	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R133	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R134	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R135	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R136	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R137	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	
R138	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R140	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R141	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R142	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R143	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R145	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R146	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R149,50	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R171,72	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R173	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R174	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R175,76	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R177-79	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	3	
R180,81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R182,83	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R184-87	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	4	
R188,89	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R191	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R192	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R193	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R194	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R195	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R196	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R197	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R198	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R199	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R200	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R201	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R202	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R203	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R204	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R205	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R206	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R207	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	
R208	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R209	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R210	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R211	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R212	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R213	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	1	
R215	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R216	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R253	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R255,56	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R257,58	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R260,61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R262,63	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R268,69	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R270,71	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R272	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R273	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R274	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R275	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R276	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R277	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R279	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R280	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R281	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R282	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R283	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R284	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R285	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R287	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	
R288	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R289	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R290	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R291	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R292	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R293,94	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R295	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R296	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R299,00	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R323	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R325,26	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R327,28	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R330,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R332,33	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R338,39	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R340,41	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R342	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R343	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R344	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R345	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R346	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R347	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R349	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R350	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R351	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R352	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R353	ERJ8GEYJ151	M.RESISTOR CH 1/8W 150	1	
R354	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R355	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R357	ERJ8GEYJ561	M.RESISTOR CH 1/8W 560	1	
R358	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R359	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R360	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R361	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R362	ERJ14YJ270	M.RESISTOR CH 1/4W 27	1	
R363,64	ERJ3GEYJ1R0	M.RESISTOR CH 1/16W 1	2	
R365	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R366	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R369,70	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R401,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R403-06	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R407	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R408,09	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R410,11	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R412,13	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R414	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R417,18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R419,20	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R421,22	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R423,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R425,26	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R428,29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R431,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R433-36	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R437	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R438,39	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R440,41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R442,43	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R444	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R447,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R449,50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R451,52	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R453,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R455,56	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R457,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R459,60	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R461,62	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R463-66	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R467	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R468,69	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R470,71	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R472,73	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R474	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R477,78	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R479,80	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R481,82	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R483,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R485,86	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R487	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R488,89	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R490,91	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R501,02	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R503-06	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R507	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R508,09	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R510,11	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R512,13	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R514	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R517,18	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R519,20	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R521,22	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R523,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R525,26	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R527	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R528,29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R531,32	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R533-36	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	4	
R537	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R538,39	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R540,41	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R542,43	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R544	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R547,48	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R549,50	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R551,52	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R553,54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R555,56	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R560	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R561	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R562	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R563	ERJ8GEYJ270	M.RESISTOR CH 1/8W 27	1	
R564	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R565	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R580	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R581	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R582	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R583	ERJ8GEYJ270	M.RESISTOR CH 1/8W 27	1	
R584	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R585	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R601,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R605,06	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R701,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4004	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4005	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4006	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4007	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4008	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4009	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4011	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4012	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4013	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4014	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4015	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4016	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4017	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4018	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4024	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4025	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4026	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4027	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4028	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4029	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4030	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4031	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4032	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R4033	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4034	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4035	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4036	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4037,38	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4039	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4040	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4041	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4042,43	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4044	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4045	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4048	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4049	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R4101,02	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R4103	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4105	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4106	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4107	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4108	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R4109	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4110	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4111	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4112	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4113	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4114	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4116	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4117	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4119,20	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4122-24	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R4125	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4126	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4127	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4128	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4129	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4130	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4131	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4132	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4135	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4136	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4137	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4138	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4139	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4140	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4201	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4202	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4203	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4206	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4208	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4209	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4210	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4211	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4212	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4213	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4216	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4217	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4218	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4219,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4301	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4306	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R4307	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4309	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R4310	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4312	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4315	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4316	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4318	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4319,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4322	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4324	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4327	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4330	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4332	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4335	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4340	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4344	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4346	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
T4001,02	VLT0729	TRANSFORMER	2	G4ZZ00000358
TG1	VJR0646	TEST POINT	1	D0X0R0000022
TG4005	EYF6CU	TEST POINT	1	
TG4101	EYF6CU	TEST POINT	1	
TG4203	EYF6CU	TEST POINT	1	
TP1,P2	EYF6CU	TEST POINT	2	
TP4001-04	EYF6CU	TEST POINT	4	
TP4101,02	EYF6CU	TEST POINT	2	
TP4201,02	EYF6CU	TEST POINT	2	
VR4001	VRV0161B503	V.RESISTOR 50K	1	
VR4002	VRV0161B103	V.RESISTOR 10K	1	
VR4103	VRV0161B503	V.RESISTOR 50K	1	
VR4301,02	VRV0161B502	V.RESISTOR 5K	2	
VR4305,06	VRV0161B103	V.RESISTOR 10K	2	
		MISCELLANEOUS		

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP7961	RF PB MOUNT ANGLE	2	
	VSC5040	HEAD BUFF SHIELD (UPPER)	1	
	VSC5041	HEAD BUFF SHIELD (MIDDLE)	1	
	VSC5042	P.C.BOARD SHIELD (LOWER)	1	
	XTV3+6FFR	SCREW	2	
	XYN2+J6	SCREW	2	
	VSC5583	EARTH HOLDER ANGLE	1	
	XSN26+3	SCREW	1	
	VMZ3026	SHIELD PROTECT SHEET	1	
	VEE9862	EARTH CABLE	1	
■ E6	VEP84393B	APROC P.C.BOARD	1	(RTL)
C4002-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4006,07	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4051-63	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	13	
C4101-05	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C4106	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4107-11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C4112	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C4113	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4151	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4152	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C4153	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4154	ECJ1VC1H180J	C.CAPACITOR CH 50V 18P	1	
C4155	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4156	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C4157-59	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4160,61	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4164-67	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4170,71	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4172-75	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4178-86	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	9	
C4187	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4188-90	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4191	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C4193-95	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C4196,97	EEVHB0J330	E.CAPACITOR 6.3V 33U	2	
C4198,99	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4201-04	ECQV1H105JL	P.CAPACITOR 50V 1U	4	
C4213,14	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4215-18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4219,20	F2H0J4700003	E.CAPACITOR 6.3V 47U	2	
C4221-24	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4225,26	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C4227,28	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4229-32	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	4	
C4233-42	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	10	
C4243,44	F2H0J4700003	E.CAPACITOR 6.3V 47U	2	
C4245-48	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4249	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C4250-53	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4254,55	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4256	F2H0J4700003	E.CAPACITOR 6.3V 47U	1	
C4265-68	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4269-72	ECHU1C472JB	P.CAPACITOR 16V 4700P	4	
C4273-80	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	8	
C4281-84	EEVHP0J100	E.CAPACITOR 6.3V 10U	4	
C4401-04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4405-08	EEVHB1C100	E.CAPACITOR 16V 10U	4	
C4409-12	EEVHB1C220	E.CAPACITOR 16V 22U	4	
C4414,15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4417,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4420,21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4423,24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4425-28	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	4	
C4429-32	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	4	
C4433,34	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4435	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4437	EEVHB1C220	E.CAPACITOR 16V 22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4439	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4440	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4441	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4442	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4443,44	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4445,46	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4447,48	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4449-52	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4453-56	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	4	
C4457	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4458-65	ECUX1H471KBV	C.CAPACITOR CH 50V 470P	8	
C4466-69	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4601	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C4602,03	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4608,09	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4613-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4617,18	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4619,20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C4621,22	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4623	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4624,25	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4626,27	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4628	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C4630,31	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4632	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4633,34	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4635,36	F2H0J2200001	E.CAPACITOR 6.3V 22U	2	
C4637	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4801,02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4803,04	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4805,06	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	2	
C4807,08	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4809,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4811,12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4813,14	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4815,16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4817	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4818,19	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C4820	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4821	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C4823	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4825	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4827,28	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4829-32	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	4	
C4833-36	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4837,38	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C4839,40	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4841,42	D4ED1220A006	VARISTOR	2	
D4201-03	MA716	DIODE	3	
D4601	MA716	DIODE	1	
D4602	MA147	DIODE	1	
D4603	MA716	DIODE	1	
D4604-06	MA142WK	DIODE	3	
D4607	MA716	DIODE	1	
D4608,09	MA142WA	DIODE	2	
FL4101	VLF1466B223	LINE FILTER	1	
IC4003	TVHC244FT	IC	1	
IC4004	C1ZBZ0001555	IC	1	
IC4006	C0EBE0000236	IC	1	
IC4007	C1ZBZ0002372	IC	1	
IC4008	TVHT244FT	IC	1	
IC4057-59	TVHT244FT	IC	3	
IC4060,61	TVHC244FT	IC	2	
IC4105,06	SN74S1051NS	IC	2	
IC4109-11	C0JBAZ000852	IC	3	
IC4112	TLCX245FT	IC	1	
IC4114-16	TVHT244FT	IC	3	
IC4151,52	C0JBAB000422	IC	2	
IC4155	TVHT244FT	IC	1	
IC4156	C0CBADD00003	IC	1	
IC4158	TLCX245FT	IC	1	
IC4160	MC74HC4046AF	IC	1	C0JBAZ000153

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4163	C5AB00000006	IC	1	
IC4164	C0ABHA000020	IC	1	
IC4166	TLCX245FT	IC	1	
IC4167	TVHC244FT	IC	1	
IC4169,70	C5AB00000006	IC	2	
IC4171	C3ABQG000045	IC	1	
IC4172	C5AB00000006	IC	1	
IC4173	TVHC244FT	IC	1	
IC4174,75	C0ZBZ0000830	IC	2	
IC4205-08	TA75W558FU	IC	4	C0ABBA000042
IC4209	XC62AP5002M	IC	1	C0CBADD00005
IC4210	XC62DN5002M	IC	1	
IC4211-14	THC4052FT	IC	4	
IC4219	XC62AP5002M	IC	1	C0CBADD00005
IC4220	XC62DN5002M	IC	1	
IC4221-24	C0FBBG000033	IC	4	
IC4225-28	TA75W558FU	IC	4	C0ABBA000042
IC4229-32	THC4052FT	IC	4	
IC4233	XC62AP5002M	IC	1	C0CBADD00005
IC4242-45	TA75W558FU	IC	4	C0ABBA000042
IC4401-04	C0ABBB000184	IC	4	
IC4409,10	C0FBZK000006	IC	2	
IC4411	C0CBABE00013	IC	1	
IC4412-15	C0ABBB000184	IC	4	
IC4420-23	THC4052FT	IC	4	
IC4601,02	C0JBAR000379	IC	2	
IC4603	TA75W558FU	IC	1	C0ABBA000042
IC4606,07	TC4W53FU	IC	2	
IC4613	TA75W558FU	IC	1	C0ABBA000042
IC4615	TA75W558FU	IC	1	C0ABBA000042
IC4617	TA75W558FU	IC	1	C0ABBA000042
IC4618	THC4052FT	IC	1	
IC4620	THC4052FT	IC	1	
IC4622	TA75W558FU	IC	1	C0ABBA000042
IC4624	THC4052FT	IC	1	
IC4626	THC4052FT	IC	1	
IC4632,33	C0JBAR000379	IC	2	
IC4636	XC62AP5002M	IC	1	C0CBADD00005
IC4637	XC62DN5002M	IC	1	
IC4639	TA75W558FU	IC	1	C0ABBA000042
IC4640	XC62AP5002M	IC	1	C0CBADD00005
IC4641	XC62DN5002M	IC	1	
IC4642	TA75W558FU	IC	1	C0ABBA000042
IC4644	XC62AP5002M	IC	1	C0CBADD00005
IC4645	XC62DN5002M	IC	1	
IC4646	THC4052FT	IC	1	
IC4801	TA75W558FU	IC	1	C0ABBA000042
IC4805	C1BB00000360	IC	1	
IC4806,07	NJM4556AM	IC	2	C0ABBB000042
ID0	VVVSI4283A	SOFTWARE	1	DOWNLOAD ONLY
L4151,52	VLF1151A132	COIL	2	
P4001	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P4002	K1KA08B00147	CONNECTOR (FEMALE)	1	
Q4201-04	2SD1979	TRANSISTOR	4	
Q4601-04	2SB1219A-R	TRANSISTOR	4	
Q4801	2SD602A-R	TRANSISTOR	1	
Q4802	2SB710A-RS	TRANSISTOR	1	
Q4803,04	2SD1979	TRANSISTOR	2	
Q4805,06	2SD1328	TRANSISTOR	2	
QR4201-04	UNR521300L	TRANSISTOR	4	
QR4205-08	UNR511300L	TRANSISTOR	4	
QR4601,02	UNR521300L	TRANSISTOR	2	
R4003	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4005-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4009	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4010	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4011	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4012	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4013	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4015	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4016	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4017	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4021	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
R4026	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4028	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4029	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4031	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4032	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4034	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4051	EXBV8V102J	COMBI.R-R 1K	1	
R4052	D1H833040002	COMBI.R-R 33	1	
R4053	EXBV8V102J	COMBI.R-R 1K	1	
R4054,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4056	D1H833040002	COMBI.R-R 33	1	
R4057-61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R4062	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4063	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4064	ERJ3GEYJ510	M.RESISTOR CH 1/16W 51	1	
R4065	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4066	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4067-73	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	7	
R4101-03	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R4104,05	D1H847240002	COMBI.R-R 4.7K	2	
R4112-14	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4115	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4116	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4151	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4152	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4159	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4160	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4162	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4163,64	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4166	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4168	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4169,70	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R4171	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4172	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4173,74	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4175	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4176	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4178	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R4179-81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R4201-04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4205-08	ERJ3GEYJ114	M.RESISTOR CH 1/16W 110K	4	
R4209-12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4213-16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R4217-20	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4221	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4222	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4223	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4224	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4225	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4226	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4227	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4228	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4229	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4230	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4231	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4232	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4233	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4234	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4235	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4236	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4237	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4238	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4239	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4240	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4241	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4242	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4243	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4244	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4245	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4246	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4247	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4248	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4249-52	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	4	
R4253	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4255	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4256	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4257	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4258	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4259	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4260	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4261	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4262	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4263	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4264	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4265	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4266	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4267	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4268	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4269	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4270	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4271	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4272	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4273	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4274	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4275	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4276	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4277	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4278	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4279	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4280	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4281-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4285-88	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4289,90	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4291-94	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	4	
R4295-98	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	4	
R4299-02	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	4	
R4303-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R4307	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4308	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4309	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4310	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4311	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4312	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4313	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4314	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4315	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4316	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R4317	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4318	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4319-22	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	4	
R4323-26	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4327-30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R4331-34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4335-38	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	4	
R4401-12	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	12	
R4413-16	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	4	
R4417-24	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4425-32	ERJ3RBD331	M.RESISTOR CH 1/16W 330	8	
R4433,34	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4435,36	D1H84704A008	COMBI.R-R 47	2	
R4437,38	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4439,40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4441,42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4443	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4444	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4445	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4446-48	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4450	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4452	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4453	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4455	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4457	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4458-69	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	12	
R4470-77	ERJ3RBD201	M.RESISTOR CH 1/16W 200	8	
R4478-86	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	9	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4487	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4488	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4489	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4490	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4491	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4492	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4493	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4494	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4495	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4496	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4497	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4498	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4499	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4500	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4501	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4502	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4503	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4504	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4505	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4506	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4507	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4508	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4509	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4510	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4511	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4512	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4513	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4601	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4602-10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	9	
R4612	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R4613	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R4614	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4617,18	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4619	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4620-23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4624	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4626	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4628,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4636	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4637	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4638	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4639	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4640	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4641	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4642	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4643	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4646,47	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	2	
R4648	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4649	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4650	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4651	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4652	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4653	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4654	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4655	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4656	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4657	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4658	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4659	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4660	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4661	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4662,63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4667	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4668	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4669	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4670	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4671	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4672	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4675-78	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4679,80	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	2	
R4681-84	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4685,86	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	2	
R4687	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4688,89	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	2	
R4690	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4692	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4694	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4695	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4696	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4697	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4698,99	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4701	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4702	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4703	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4704	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4706	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4707	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4708,09	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4710	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4712-15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4801,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4803,04	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4805,06	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4807,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4809	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4811-13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4814	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4815	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1	
R4818,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4821	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4823	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4825,26	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4829,30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4831,32	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R4833,34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4835,36	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4837,38	ERJ3GEYJ432	M.RESISTOR CH 1/16W 4.3K	2	
R4839,40	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4841	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R4842	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R4843	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R4844	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R4845,46	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4847,48	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4849	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4850	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4851	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4852	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4853-58	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
TG4155-57	EYF6CU	TEST POINT	3	
TG4201	EYF6CU	TEST POINT	1	
TG4401,02	EYF6CU	TEST POINT	2	
TG4601	EYF6CU	TEST POINT	1	
TP4001-04	EYF6CU	TEST POINT	4	
TP4055,56	EYF6CU	TEST POINT	2	
TP4151-53	EYF6CU	TEST POINT	3	
TP4602-07	EYF6CU	TEST POINT	6	
VR4201-04	VRV0161B103	V.RESISTOR 10K	4	
VR4401-04	VRV0161B502	V.RESISTOR 5K	4	
X4151	VSX0519	CRYSTAL OSCILLATOR	1	H0D160500011
X4152	H4G2455B0005	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
■ E7	VEP84368B	A I/O P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4001	ECA1CHG221	E.CAPACITOR 16V 220U	1	
C4101,02	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4103,04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4105,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4107,08	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4109,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4111-18	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	8	
C4119,20	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4121,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C4123-30	EEVHB1C470P	E.CAPACITOR 16V 47U	8	
C4201,02	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4203,04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4205,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4207,08	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C4209,10	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4211-18	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	8	
C4219,20	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4221,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C4223-30	EEVHB1C470P	E.CAPACITOR 16V 47U	8	
C4300-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C4304,05	EEVHB1A330	E.CAPACITOR 10V 33U	2	
C4306-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	F1J1E104A082
C4310,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4312-15	EEVHP1C100	E.CAPACITOR 16V 10U	4	
C4316-19	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	4	
C4320-23	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4326-29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4330,31	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	2	
C4400-03	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C4404,05	EEVHB1A330	E.CAPACITOR 10V 33U	2	
C4406-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	F1J1E104A082
C4410,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4412-15	EEVHP1C100	E.CAPACITOR 16V 10U	4	
C4416-19	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	4	
C4420-23	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4426-29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C4430,31	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	2	
D4300,01	MA152WA	DIODE	2	
D4302,03	MA152WK	DIODE	2	
D4304	MA716	DIODE	1	
D4400,01	MA152WA	DIODE	2	
D4402,03	MA152WK	DIODE	2	
D4404	MA716	DIODE	1	
IC4101	TA75W558FU	IC	1	C0ABBA000042
IC4102	NJM4556AM	IC	1	C0ABBB000042
IC4103	TA75W558FU	IC	1	C0ABBA000042
IC4104	NJM4556AM	IC	1	C0ABBB000042
IC4201	TA75W558FU	IC	1	C0ABBA000042
IC4202	NJM4556AM	IC	1	C0ABBB000042
IC4203	TA75W558FU	IC	1	C0ABBA000042
IC4204	NJM4556AM	IC	1	C0ABBB000042
IC4300,01	AQV212SX	IC	2	K6G1AKB00012
IC4302,03	K6G4AKB00004	IC	2	
IC4304	XC62AP5002M	IC	1	C0CBADD00005
IC4305,06	NJM2122M	IC	2	
IC4307,08	TA75W558FU	IC	2	C0ABBA000042
IC4309	XC62DN5002M	IC	1	
IC4400,01	AQV212SX	IC	2	K6G1AKB00012
IC4402,03	K6G4AKB00004	IC	2	
IC4404	XC62AP5002M	IC	1	C0CBADD00005
IC4405,06	NJM2122M	IC	2	
IC4407,08	TA75W558FU	IC	2	C0ABBA000042
IC4409	XC62DN5002M	IC	1	
P4101	VJS3421A020	CONNECTOR (FEMALE)	1	K1MN20A00027
P4102	VJP3600F030K	CONNECTOR (MALE)	1	
P4103	K1KA03A00017	CONNECTOR (MALE)	1	
P4301	VJP3600F030K	CONNECTOR (MALE)	1	
P4303	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
Q4101	2SD602A-R	TRANSISTOR	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4102	2SB710A-RS	TRANSISTOR	1	
Q4103-06	2SD1328	TRANSISTOR	4	
Q4201	2SD602A-R	TRANSISTOR	1	
Q4202	2SB710A-RS	TRANSISTOR	1	
Q4203-06	2SD1328	TRANSISTOR	4	
QR4300-09	UNR521300L	TRANSISTOR	10	
QR4400-09	UNR521300L	TRANSISTOR	10	
R4001-30	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	30	
R4031	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4101,02	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4103,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4105,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4107,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4109,10	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4111-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4119-22	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4123,24	ERJ3RBD121	M.RESISTOR CH 1/16W 120	2	
R4125-28	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4131-34	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4135-40	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	6	
R4141-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4145,46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4201,02	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4203,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4205,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4209,10	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4211-18	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4219-22	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4223,24	ERJ3RBD121	M.RESISTOR CH 1/16W 120	2	
R4225-28	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4231-34	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4235-40	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	6	
R4241-44	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4245,46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4301	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4303	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4304,05	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4306,07	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4308	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4310	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4312,13	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4314-21	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	8	
R4322-25	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	4	
R4326	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4328	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4329	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4330,31	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R4332-35	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4336	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4337	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4338	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4339	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4340,41	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4342-45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	
R4346-49	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R4350-55	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4356,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4358,59	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4362,63	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4364,65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R4366-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	D0YDR0000005
R4401	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4403	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4404,05	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R4406	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4407	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4408	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R4409	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4412,13	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4414-21	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	8	
R4422-25	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4426	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4428	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R4429	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4430,31	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R4432-35	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4436	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4437	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4438	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R4439	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R4440,41	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4442-45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	4	
R4446-49	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R4450-55	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4456,57	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R4458,59	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4462,63	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4464,65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R4466-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	D0YDR0000005
VR4101,02	EVM7JGA00B52	V.RESISTOR 500	2	
VR4201,02	EVM7JGA00B52	V.RESISTOR 500	2	
■ E9	VEP82250A	MECHA I/F P.C.BOARD	1	(RTL)
C4	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C9	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C12	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C13	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C16	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C18,19	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C21,22	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C23	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C300	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C301	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C302-04	EEVHB1C470P	E.CAPACITOR 16V 47U	3	
C305-09	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C310-12	EEVHB1C470P	E.CAPACITOR 16V 47U	3	
C313	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C314	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C315-21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C400	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C401	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C403	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C404	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	F1J1C105A083
C405-07	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
C500	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C501	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C502,03	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C504,05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C506,07	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C508,09	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C510,11	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C512,13	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C514,15	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C516,17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C518,19	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C520	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C521	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C522	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C523	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C524	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C525	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C526	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C527	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C528,29	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C530,31	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C532,33	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C534,35	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C536,37	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C538,39	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C540,41	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C542,43	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C544,45	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C546,47	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C600,01	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C602	ECUX1H123KBV	C.CAPACITOR CH 50V 0.012U	1	
C603,04	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	2	
C606	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C607	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C608	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C609	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C610	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C611	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C612	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C613	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C614	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C615	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C616	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C700-02	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C703	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C704	EEVHB1C470P	E.CAPACITOR 16V 47U	1	
C705,06	EEVHB1C220	E.CAPACITOR 16V 22U	2	
D1	MA147	DIODE	1	
D300	MA2Q73800L	DIODE	1	
D301	MA8075-M	DIODE	1	
D400	MA142K	DIODE	1	
D401-03	MA2Q73800L	DIODE	3	
D500-11	MA2Q73800L	DIODE	12	
D512,13	MA147	DIODE	2	
D700,01	MA147	DIODE	2	
IC2	C0ABBB000179	IC	1	
IC3	0P177GS	IC	1	
IC4	C0ABBB000179	IC	1	
IC5	0P177GS	IC	1	
IC6	C0ABBB000179	IC	1	
IC7	C0ABBB000184	IC	1	
IC8	C0ABBB000179	IC	1	
IC14	C0JBAZ000994	IC	1	
IC15	UPC4741G2	IC	1	
IC18	C0ABBB000184	IC	1	
IC19	C0BBBA000044	IC	1	
IC300	C0ABBA000075	IC	1	
IC301	BA6238A	IC	1	C0GAK0000007
IC302-04	C0JBAZ000608	IC	3	
IC305	BA6238A	IC	1	C0GAK0000007
IC306,07	C0JBAQ000080	IC	2	
IC400	C0JBAM000052	IC	1	
IC401	C0BBBA000044	IC	1	
IC500	C0BBBA000044	IC	1	
IC501,02	AN3834S	IC	2	
IC503	C0ABBB000179	IC	1	
IC703	C0JBAZ000994	IC	1	
IC2254	TC4538BF	IC	1	
J400-03	K4CD01000007	CABLE TERMINAL	4	
L300-04	VLF1151A132	COIL	5	
P300	K1KAA0A00120	CONNECTOR (MALE)	1	
P400	VJS3801D015	CONNECTOR (FEMALE)	1	
P401,02	VJP3172D005	CONNECTOR (MALE)	2	K1KA05B00053
P403	K1KA02B00075	CONNECTOR (MALE)	1	
P404	K1KA03B00102	CONNECTOR (MALE)	1	
P405,06	K1KA02B00075	CONNECTOR (MALE)	2	
P407	VJP1243T	CONNECTOR (MALE) 3P	1	K1KA03B00012
P408	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P409	K1KA03B00102	CONNECTOR (MALE)	1	
P410	K1KA02B00075	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P411	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P412	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P413	K1KA06A00031	CONNECTOR (MALE)	1	
P414	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P415,16	VJS3813C017	CONNECTOR (FEMALE)	2	K1MN17B00012
P417,18	VJP3172D004	CONNECTOR (MALE)	2	K1KA04B00007
P419	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P420	VJS3422B015	CONNECTOR (FEMALE)	1	
P421	VJS3422B019	CONNECTOR (FEMALE)	1	
P422,23	VJP3172D002	CONNECTOR (MALE)	2	K1KA02B00051
Q1	2SB1218A-R	TRANSISTOR	1	
Q100-07	B1DZED000002	TRANSISTOR	8	
Q300	2SD601A	TRANSISTOR	1	
Q301	2SB936A-Q	TRANSISTOR	1	
Q400,01	2SB766	TRANSISTOR	2	
Q500-05	2SD1624-S	TRANSISTOR	6	
Q700	2SD601A	TRANSISTOR	1	
Q701,02	2SB0709A0L	TRANSISTOR	2	
Q703	2SD601A	TRANSISTOR	1	
Q704	2SB0709A0L	TRANSISTOR	1	
Q705	2SD601A	TRANSISTOR	1	
QR100-11	UNR521300L	TRANSISTOR	12	
QR400,01	UNR521400L	TRANSISTOR-RESISTOR	2	
QR500-03	UN5215	TRANSISTOR-RESISTOR	4	
QR700	UNR521300L	TRANSISTOR	1	
QR701	UNR511300L	TRANSISTOR	1	
QR702	UN5215	TRANSISTOR-RESISTOR	1	
QR703	UNR511500L	TRANSISTOR	1	
R3,R4	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R7	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R10	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R11,12	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R13	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R15	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R16	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R18	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R19	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R20	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R21	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R22	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R24	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R25	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R26	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R27	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R28	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R30	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R31	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R32	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R33	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R100-03	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R104-06	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R107,08	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R109	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R110,11	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R112-15	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R300	EXBV8V473J	COMBI.R-R 47K	1	
R301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R302	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R303	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R304	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R305	EXBV8V473J	COMBI.R-R 47K	1	
R306	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R307,08	EXBV8V473J	COMBI.R-R 47K	2	
R309	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R310-12	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	3	
R313	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R314	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R315-17	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R318-22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R351	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R400	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R401	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R402	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R405	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R406	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R407	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R409	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R410	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R411	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R412	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R413	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R414-17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R418	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R419	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R420	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R421,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R500-03	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R504	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R505	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R506,07	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R508	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R509	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R510	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R511	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R512	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R513,14	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R515-18	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	4	
R519-22	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	4	
R523,24	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R525-28	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R529	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R530	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R531	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R532-34	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	3	
R535-38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R539,40	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R600	ERJ3GEYJ433	M.RESISTOR CH 1/16W 43K	1	
R601	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R602	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R603,04	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R606,07	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609	ERJ3GEYJ621	M.RESISTOR CH 1/16W 620	1	
R610	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R611	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R612	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R613	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R614,15	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R616	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R617	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R618	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R619	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R620	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R621	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R622	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R623	D0GB123JA002	M.RESISTOR CH 1/16W 12K	1	
R624	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R700-03	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R704,05	ERJ3RBD471	M.RESISTOR CH 1/16W 470	2	
R706	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R707	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R708,09	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R710	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
VR1	EVM7JGA00B24	V.RESISTOR 20K	1	
VR2	EVM7JGA00B54	V.RESISTOR 50K	1	
VR400,01	VRV0303B203A	V.RESISTOR 20K	2	D3EC3203A002

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E10	VEP81203E	POWER 1 P.C.BOARD	1	(RTL)
■	VEP81233A	SUB POWER 1 P.C.BOARD	1	(RTL)FOR VEP81203E
⚠ C1001	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1002,03	F1BAH1020010	C.CAPACITOR 1000P	2	
⚠ C1004	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1005	VCK0262M222A	C.CAPACITOR 2200P	1	F1BAH2220002
C1006	EEUFC1H101	E.CAPACITOR 50V 100U	1	
C1007	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C1010	VCK0106K221	C.CAPACITOR 220P	1	
C1013	ECEC2WB151DB	E.CAPACITOR 450V 150U	1	
C1014	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1015	ECQE2W105KC	P.CAPACITOR 450V 1U	1	
⚠ C1016	ECQU2A154ML	P.CAPACITOR 100V 0.15U	1	
C1017	ECQF6222JZH	P.CAPACITOR 630V 2200P	1	
C1102	ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1103	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C1106	ECKD2H221KB	C.CAPACITOR 500V 220P	1	
C1107	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C1108	EEUFC1E182	E.CAPACITOR 25V 1800U	1	
C1110	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C1111-13	EEUFC1E182	E.CAPACITOR 25V 1800U	3	
C1114,15	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	2	
C1118	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010
C1901	ECA1HXL100	E.CAPACITOR 50V 10U	1	FOR VEP81233A
C1902	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1903	ECJ2VC1H221J	C.CAPACITOR CH 50V 220P	1	FOR VEP81233A
C1904	ECQV1H684JL	P.CAPACITOR 50V 0.68U	1	FOR VEP81233A
C1905	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	FOR VEP81233A
C1906	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010 FOR VEP81233A
C1908	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	FOR VEP81233A
C1909	ECA1HXL010	E.CAPACITOR 50V 1U	1	FOR VEP81233A
C1910	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	F1J1H561A025 FOR VEP81233A
C1912	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	FOR VEP81233A
C1913	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	FOR VEP81233A
C1914	ECJ2VF1H104Z	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1915	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	FOR VEP81233A
C1916	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1917	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	F1J1H103A010 FOR VEP81233A
C1921,22	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	F1J1H103A010 FOR VEP81233A
C1923	ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	FOR VEP81233A
C1924	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	FOR VEP81233A
D1001	SFPL-52	DIODE	1	
D1002	RBV606	DIODE	1	
D1003,04	SFPL-52	DIODE	2	
D1005	FML-G26S	DIODE	1	
D1006-09	MA3100-M	DIODE	4	
D1101	MA3270-M	DIODE	1	
D1103	SFPL-52	DIODE	1	
D1104	AP01C	DIODE	1	B0HADV000010
D1105	SFPL-52	DIODE	1	
D1106	D20LC20U	DIODE	1	B0HBSM000021
D1107	U1GU44	DIODE	1	
D1108	SFPL-52	DIODE	1	
D1109	MA3200-M	DIODE	1	
D1110,11	MA152K	DIODE	2	
D1112	MA3068-M	DIODE	1	
D1901,02	MA3200-M	DIODE	2	FOR VEP81233A
D1903	MA3100-M	DIODE	1	FOR VEP81233A
D1904	MA152K	DIODE	1	FOR VEP81233A
D1905	MA152WA	DIODE	1	FOR VEP81233A
D1906	MA3270-M	DIODE	1	FOR VEP81233A
D1907	MA3051-M	DIODE	1	MAZ30510ML FOR VEP81233A
D1908	MA3068-M	DIODE	1	FOR VEP81233A
D1911	MA3068-M	DIODE	1	FOR VEP81233A
D1914	MA152K	DIODE	1	FOR VEP81233A
⚠ F1001	VSF0246	FUSE	1	
IC1101	AN1431M	IC	1	
IC1901	M51951BL	IC	1	C0EAH0000030 FOR VEP81233A
IC1902	MC33262P	IC	1	C0DAZZZ00013 FOR VEP81233A
IC1903	FA5311BP	IC	1	C0DAAZZ00002 FOR VEP81233A

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
J1002	VWJ0121	CABLE	1	
J1004	VWJ0121	CABLE	1	
J1101,02	VWJ0121	CABLE	2	
L1002	VLQ0861	COIL	1	
⚠ L1003,04	ELF20N015A	COIL	2	
L1007	VLP0083	COIL	1	J0JKB0000011
L1101,02	VLP0083	COIL	2	J0JKB0000011
L1106-08	VLP0336	FERRITE CORE	3	
P1001	VJP2073	CONNECTOR (MALE)	1	K1KA02A00104
P1002,03	VJP3878	CONNECTOR (MALE)	2	K1KA02B00137
P1004,05	VJP3042G003W	CONNECTOR (MALE)	2	K1KA03A00157
P1006	VJP3042G017W	CONNECTOR (MALE)	1	K1KA17A00011
P1007	VJP1149	CONNECTOR (MALE)	1	K1KA03B00084
P1101	K1KA06A00262	CONNECTOR	1	
P1901,02	VJS3042B003W	CONNECTOR (FEMALE)	2	K1KB03B00007 FOR VEP81233A
P1903	VJS3042B017W	CONNECTOR (FEMALE) 17P	1	K1KB17B00005 FOR VEP81233A
⚠ PC1101,02	B3QAZ0000030	PHOTO COUPLER	2	
Q1001	AC08FGM	DIODE	1	B2BAJR000001
⚠ Q1002	2SK1941-01R	TRANSISTOR	1	B1DEGR000002
⚠ Q1101	2SK2677-4112	TRANSISTOR	1	B1BAGU000002
Q1102	2SD601A-R	TRANSISTOR	1	
Q1103	2SB0709ALL	TRANSISTOR	1	
Q1901	XN1501	TRANSISTOR-RESISTOR	1	FOR VEP81233A
Q1903	2SJ278	TRANSISTOR	1	FOR VEP81233A
QR1901	UN2111	TRANSISTOR-RESISTOR	1	FOR VEP81233A
QR1902	UNR221300L	TRANSISTOR	1	FOR VEP81233A
QR1904	UNR221300L	TRANSISTOR	1	FOR VEP81233A
QR1905	UN2113	TRANSISTOR-RESISTOR	1	FOR VEP81233A
QR1906	UNR211200L	TRANSISTOR	1	FOR VEP81233A
QR1907	UNR221300L	TRANSISTOR	1	FOR VEP81233A
⚠ R1001	ERC12AGM334C	S.RESISTOR 1/2W 33K	1	
R1002-05	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	4	
R1006	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
⚠ R1007	ERU5TEJ100	F.RESISTOR 5W 10	1	
R1009	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1010,11	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	2	
R1012	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1013	ERX2SJR22	M.RESISTOR 2W 0.22	1	
R1014	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1017	ERG2SJ220	M.RESISTOR 2W 22	1	
R1018	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1019	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
R1020	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R1021	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1023	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	1	
R1024	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1025	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1026	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R1101	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R1102	ERX2SJR33	M.RESISTOR 2W 0.33	1	
R1104	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	1	
R1105	ERJ12YJ680	M.RESISTOR CH 1/2W 68	1	
R1108	ERG2SJ104	M.RESISTOR 2W 100K	1	
R1109	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	1	
R1110	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1111	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	D0GD221JA003
R1112	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R1114	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1115,16	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1117	ERJ6RBD622	M.RESISTOR CH 1/10W 6.2K	1	
R1118	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R1119,20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1121	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R1122	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1123	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R1124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1125	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R1127	ERG2SJ104	M.RESISTOR 2W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1901,02	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	2	FOR VEP81233A
R1903	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1904	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	FOR VEP81233A
R1905-07	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	FOR VEP81233A
R1908	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	FOR VEP81233A
R1909	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1910	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	FOR VEP81233A
R1911	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	FOR VEP81233A
R1912,13	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	2	FOR VEP81233A
R1915	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	FOR VEP81233A
R1916	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	FOR VEP81233A
R1917	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	FOR VEP81233A
R1919	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	FOR VEP81233A
R1920,21	ERJ12YJ104	M.RESISTOR CH 1/2W 100K	2	FOR VEP81233A
R1923	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	D0GD225JA003 FOR VEP81233A
R1925	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	FOR VEP81233A
R1926-28	ER050CHD1503	M.RESISTOR 150K	3	FOR VEP81233A
R1930	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003 FOR VEP81233A
R1931-33	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	FOR VEP81233A
R1934	ERJ6GEYG912	M.RESISTOR CH 1/10W 9.1K	1	FOR VEP81233A
R1935	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	FOR VEP81233A
R1936	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	FOR VEP81233A
R1938	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	D0GD221JA003 FOR VEP81233A
R1944-46	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	FOR VEP81233A
R1949,50	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	FOR VEP81233A
R1951	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005 FOR VEP81233A
R1953	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	FOR VEP81233A
⚠ T1101	G4D2C0000005	TRANSFORMER	1	
⚠ TH1101	VRT0142	THERMISTOR	1	D4DDB3310005
TP1101	VJR0646	TEST POINT	1	D0X0R0000022
		MISCELLANEOUS		
⚠	VWZ0074	INSULATION COVER	1	
⚠	VMZ2187	INSULATION COVER	1	
⚠	VMZ1608	CAPACITOR TUBE	1	
	VMP5282	TRANSISTOR CLIP	1	
	VSC4861	HEAT SINK (C)	1	
	VSC4860	HEAT SINK (B)	1	
⚠	VMZ0965	CAPACITOR COVER	2	
	VSC3434	SHIELD CASE	1	
	XYN3+F8	SCREW	4	
	XTV3+8G	SCREW	1	
	VMP5283	EARTH LUG	2	
	XYN3+F6	SCREW	2	
	VMZ2908	HEAT SINK	2	
	VMZ2969	HEAT SINK	1	
	XYN3+J8	SCREW	4	
	VSC4972	POWER CASE (B)	1	
	VMZ3453	POWER TR SHEET A	1	
■ E11	VEP81219B	POWER 2 P.C.BOARD	1	(RTL)
C1201-03	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C1204	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C1206	ECA1HXS100	E.CAPACITOR 50V 10U	1	
C1207	ECQV1H684JL	P.CAPACITOR 50V 0.68U	1	
C1208,09	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1211	VCEA1DSP680	E.CAPACITOR 20V 68U	1	
C1212	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1213	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1214,15	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1301	ECA1HHGR33	E.CAPACITOR 50V 0.33U	1	
C1302	ECA1HHGR22	E.CAPACITOR 50V 0.22U	1	
C1303,04	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1305	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1306	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1307	ECA1HHGR22	E.CAPACITOR 50V 0.22U	1	
C1308	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	
C1309	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1310	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1311	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1312	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C1313	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1314	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1316,17	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C1318,19	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C1325	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1326,27	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1328,29	VCEA1DSP680	E.CAPACITOR 20V 68U	2	
C1330-33	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
C1335	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1336	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1337	VCEA1AAP221	E.CAPACITOR 10V 220U	1	F2D1A2210001
C1338	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C1339	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1340	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1341	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1342	F2D1A1010002	E.CAPACITOR 10V 100U	1	
C1344	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1345	F2D1D1010001	E.CAPACITOR 20V 100U	1	
C1346	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1347,48	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1352,53	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1354	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1401	ECUM1E683KBN	C.CAPACITOR CH 25V 0.068U	1	
C1402	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1403	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	1	
C1404	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1405,06	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1411	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1412,13	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1414	VCEA1ASC4R7M	E.CAPACITOR 10V 4.7U	1	F2D1A4R70002
C1415-17	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	3	
C1418,19	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1420,21	VCEA1AAP221	E.CAPACITOR 10V 220U	2	F2D1A2210001
C1422,23	F2D1A1010002	E.CAPACITOR 10V 100U	2	
C1424,25	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1427	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
C1801	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1802	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1803	ECA1HXS2R2	E.CAPACITOR 50V 2.2U	1	
C1804	VCEA1CSC3R3M	E.CAPACITOR 16V 3.3U	1	
C1805	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1806	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C1807	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1808	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1811	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1814,15	F2D1D6800001	E.CAPACITOR 20V 68P	2	
C1816,17	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C1818	F2D1A1010002	E.CAPACITOR 10V 100U	1	
C1819	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1820	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1821	ECJ2VB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1822	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C1823	F2D1D6800001	E.CAPACITOR 20V 68P	1	
C1824	F2D1A1010002	E.CAPACITOR 10V 100U	1	
D1201	VSD0129	DIODE	1	
D1202	SF20SC3L	DIODE	1	B0JBSD000010
D1203	MA142WK	DIODE	1	
D1204	MA142WA	DIODE	1	
D1205	MA3100-M	DIODE	1	
D1206	MA142K	DIODE	1	
D1208	MA3200-M	DIODE	1	
D1209	MA8068-M	DIODE	1	
D1211	SFPB-54	DIODE	1	B0JCMC000002
D1212	MA142K	DIODE	1	
D1213	MA8100-M	DIODE	1	
D1214	MA142WK	DIODE	1	
D1215	MA3051-H	DIODE	1	
D1216	MA142K	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1301	MA152K	DIODE	1	
D1302-06	MA142K	DIODE	5	
D1308	SFPB-54	DIODE	1	B0JCMC000002
D1309-11	DE5SC4M-4061	DIODE	3	B0JDRE000001
D1312,13	MA142K	DIODE	2	
D1314	MA8180-M	DIODE	1	
D1315	MA142K	DIODE	1	
D1316	MA8180-M	DIODE	1	
D1317	MA142K	DIODE	1	
D1318	MAZ80820HL	DIODE	1	
D1319	MA142K	DIODE	1	
D1320	MA8130-M	DIODE	1	
D1321	MA142K	DIODE	1	
D1322	MA142WA	DIODE	1	
D1323	MA142K	DIODE	1	
D1324	MA152K	DIODE	1	
D1402,03	MA142WK	DIODE	2	
D1404,05	SFPB-76V	DIODE	2	
D1406,07	MAZ80680KL	DIODE	2	
D1408	MA142WA	DIODE	1	
D1409	MA142WK	DIODE	1	
D1801	MA142K	DIODE	1	
D1802	MAZ81400ML	DIODE	1	
D1803	MA142K	DIODE	1	
D1804	MAZ80680KL	DIODE	1	
D1805	MA142K	DIODE	1	
D1806	MA142WA	DIODE	1	
D1807	MA152K	DIODE	1	
D1808,09	MA142K	DIODE	2	
D1810,11	DE5SC4M-4061	DIODE	2	B0JDRE000001
⚠ F1201	K5D103AQ0001	FUSE	1	
IC1201	C0BBBA000019	IC	1	
IC1203	UPC1093J	IC	1	C0DAEMC00002
IC1301,02	BA9743AFV	IC	2	C0DBAZC00010
IC1401	C0DBAZB00006	IC	1	
IC1801	BA9743AFV	IC	1	C0DBAZC00010
L1301,02	VLQ0655K100	COIL 10UH	2	
L1303,04	J0JBC0000023	FILTER	2	
L1305	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1306	J0JBC0000023	FILTER	1	
L1307	VLQ0859M220	COIL 22UH	1	
L1308	VLQ0859M221	COIL 220U	1	
L1309	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1310	VLQ0859M221	COIL 220U	1	
L1311	VLQ0655K220	COIL 22UH	1	
L1312	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1313	VLQ0441K220	COIL 22UH	1	
L1314,15	VLQ0655K220	COIL 22UH	2	
L1316	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1317	J0JKC0000009	FILTER	1	
L1401-04	J0JBC0000023	FILTER	4	
L1405,06	VLQ0441K1R0	COIL 1.0UH	2	
L1407	VLQ0859M100	COIL 10UH	1	
L1408	VLQ0859M220	COIL 22UH	1	
L1409	VLQ0655M3R3	COIL 3.3UH	1	
L1410	VLQ0655K100	COIL 10UH	1	
L1801	VLQ0655K100	COIL 10UH	1	
L1802,03	J0JBC0000023	FILTER	2	
L1804	VLQ0784331	COIL 330UH	1	
L1805	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
L1806	VLQ0859M221	COIL 220U	1	
L1807,08	VLQ0441K220	COIL 22UH	2	
L1809	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
P1201	K1KA06A00262	CONNECTOR	1	
P1202	VJP3957A002	CONNECTOR (MALE)	1	K1KA02A00169
P1203	VJP4232B030	CONNECTOR (MALE)	1	K1KA30B00031
P1204	VJP1596T	CONNECTOR (MALE)	1	K1KA03A00113
P1205	K1KA03A00017	CONNECTOR (MALE)	1	
Q1201,02	XN0121300L	TRANSISTOR-RESISTOR	2	
Q1203	XN0460100L	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1204-07	B1DGJG000005	TRANSISTOR	4	
Q1208,09	XN0440100L	TRANSISTOR	2	
Q1210	XN4501	TRANSISTOR-RESISTOR	1	
Q1211,12	2SD1819A-R	TRANSISTOR	2	
Q1301,02	XN4501	TRANSISTOR-RESISTOR	2	
Q1303,04	2SD1819A-R	TRANSISTOR	2	
Q1306,07	2SD1819A-R	TRANSISTOR	2	
Q1308	2SD1820A-R	TRANSISTOR	1	
Q1309-12	XN0440100L	TRANSISTOR	4	
Q1313	2SJ279S	TRANSISTOR	1	B1DGDG000002
Q1314	2SJ214S	TRANSISTOR	1	
Q1315	2SJ279S	TRANSISTOR	1	B1DGDG000002
Q1316,17	2SK1059-Z	TRANSISTOR	2	B1DFDG000001
Q1318,19	2SD1819A-R	TRANSISTOR	2	
Q1401-04	B1DFFD000006	FET	4	
Q1801	2SD1819A-R	TRANSISTOR	1	
Q1802	XN4501	TRANSISTOR-RESISTOR	1	
Q1803	2SD1819A-R	TRANSISTOR	1	
Q1805	2SD1819A-R	TRANSISTOR	1	
Q1807,08	XN0440100L	TRANSISTOR	2	
Q1809,10	2SJ279S	TRANSISTOR	2	B1DGDG000002
QR1201	UNR521300L	TRANSISTOR	1	
QR1202	UNR521100L	TRANSISTOR	1	
QR1203	UNR511300L	TRANSISTOR	1	
QR1204	UN5212	TRANSISTOR-RESISTOR	1	
QR1207	UN5212	TRANSISTOR-RESISTOR	1	
QR1208	UNR511300L	TRANSISTOR	1	
QR1210,11	UNR521100L	TRANSISTOR	2	
QR1301,02	UNR511200L	TRANSISTOR	2	
QR1303	UNR521100L	TRANSISTOR	1	
QR1304,05	UNR511200L	TRANSISTOR	2	
QR1306-08	UNR521100L	TRANSISTOR	3	
QR1309,10	UNR511300L	TRANSISTOR	2	
QR1801	UNR511300L	TRANSISTOR	1	
QR1802	UNR511200L	TRANSISTOR	1	
QR1803	UNR521100L	TRANSISTOR	1	
QR1804	UNR511200L	TRANSISTOR	1	
QR1805	UNR521100L	TRANSISTOR	1	
R1201	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1202-05	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R1207,08	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	2	
R1209	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1210	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1211	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1212	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1213	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1215	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1217	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1220,21	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1222	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1223	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1224	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1225	ERJ3RBD513	M.RESISTOR CH 1/16W 51K	1	
R1227,28	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1229	VRE0222J33M	M.RESISTOR	1	
R1230	VRE0222J10M	M.RESISTOR	1	
R1231,32	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R1233,34	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	2	
R1235	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R1236,37	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1238,39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1240	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R1241	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1242	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1243	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1244	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	D0GD220JA003
R1248	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1249	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R1252	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1303-06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R1307,08	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R1309-12	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R1313,14	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1315	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1316	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1317	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1318	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1319,20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R1321	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1322	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1323	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1324,25	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1326	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1327-29	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R1330	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1331	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1332,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1334	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1335	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	D0GD472JA003
R1336	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1338	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1339,40	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1341	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1342	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	1	
R1344	VRE0202H18	M.RESISTOR CH 0.18	1	
R1345,46	ERJL14KJ50M	M.RESISTOR CH 1/4W 5	2	
R1347	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1348	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1349	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1350	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1351	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1352	VRE0202HR10	M.RESISTOR CH 1	1	
R1355	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1357,58	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1359	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1360	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1364,65	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R1366	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1368	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1371	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1372	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1373	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1374,75	ERJ6RBD911	M.RESISTOR CH 1/10W 910	2	
R1376	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R1377	ERJ6RBD563	M.RESISTOR CH 1/10W 56K	1	
R1378,79	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1380	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R1381	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1382	ERJ6RBD111	M.RESISTOR CH 1/10W 110	1	
R1383	ERJ6RBD362	M.RESISTOR CH 1/10W 3.6K	1	
R1384,85	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1386,87	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	D0GD121JA003
R1388	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1390	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1392	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1393	ERJ6RBD751	M.RESISTOR CH 1/10W 750	1	
R1394	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1395	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R1403	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1404	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1405	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1407,08	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1409,10	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	2	
R1416	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1417,18	VRE0202H12	M.RESISTOR CH 0.12	2	
R1419,20	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1421	ERJ6RBD432	M.RESISTOR CH 1/10W 4.3K	1	
R1422	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R1423,24	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1425	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1427	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1801,02	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1803,04	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	D0GD121JA003
R1805,06	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R1807-10	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	4	
R1812	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1813	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1814	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	

Components identified with the mark ⚠ have special characteristics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1815	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1817	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R1818	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1819	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1820	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R1821	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1822	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1823	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1824,25	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	D0GD222JA003
R1828	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R1829	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R1830,31	ERJL14KJ50M	M.RESISTOR CH 1/4W 5	2	
R1832	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1833	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1834	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R1835	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R1838,39	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1843	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1844	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R1845	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R1846	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R1847	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
R1848	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R1849	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R1850	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
T1301	VLT0925	TRANSFORMER	1	G4ZZ00000377
⚠ TH1205	VRT0148050	THERMISTOR	1	D4ZZ00000006
TH1206	VRT0143	THERMISTOR	1	
TP1301-06	EYF6CU	TEST POINT	6	
TP1401,02	EYF6CU	TEST POINT	2	
TP1801,02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	EYF52BC	FUSE HOLDER	2	
	VJR1008	EARTH LUG	4	
	VSC4859	HEAT SINK (A)	1	
	XYN3+F8	SCREW	1	
	XYN3+J8	SCREW	1	
■ E12	VEP81232B	POWER 3 P.C.BOARD	1	(RTL)
C1502	EEFCD0K330R	E.CAPACITOR 8V 33U	1	
C1503	ECA0JHG471B	E.CAPACITOR 6.3V 470U	1	
C1504	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	1	
C1505	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C1506	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1507	EEUFC1V561S	E.CAPACITOR 35V 560U	1	
C1508	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1509	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1510,11	ECA1CHG472	E.CAPACITOR 16V 4700U	2	
C1601	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1609	ECJ2VC1H222J	C.CAPACITOR CH 50V 2200P	1	
C1613	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1614	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C1616	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1620	ECJ2XC1H331J	C.CAPACITOR CH 50V 330P	1	
C1621	ECUM1H100JCN	C.CAPACITOR CH 50V 10P	1	
C1630	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1631	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	1	
C1701,02	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1703	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1704,05	ECUX1H563KBN	C.CAPACITOR CH 50V 0.056U	2	
C1706,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1708,09	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1710,11	F2H1D470A004	E.CAPACITOR CH 20V 47U	2	
C1712,13	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1714,15	EEUFC1A391	E.CAPACITOR 10V 390U	2	
C1716,17	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C1718,19	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1720,21	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	2	
C1722	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1801,02	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C1803	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C1804,05	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	2	
C1806,07	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C1808,09	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	2	
C1810,11	F2H1D470A004	E.CAPACITOR CH 20V 47U	2	
C1812,13	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1814,15	EEUFC1A391	E.CAPACITOR 10V 390U	2	
C1816,17	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C1818,19	EEFCD0J470R	E.CAPACITOR 6.3V 47U	2	
C1820,21	ECJ2YB1H104K	C.CAPACITOR CH 50V 0.1U	2	
C1822	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
D1501	MA3051-H	DIODE	1	
D1502,03	MA115	DIODE	2	
D1504	MA3270-M	DIODE	1	
D1505	NSQ03A04	DIODE	1	B0JCPE000013
D1506	MA3062M	DIODE	1	
D1507	MA142K	DIODE	1	
D1606	MAZ82200ML	DIODE	1	
D1609	MA142WK	DIODE	1	
D1610	NSQ03A04	DIODE	1	B0JCPE000013
D1611	MA142WK	DIODE	1	
D1701	MA720	DIODE	1	
D1703,04	NSQ03A04	DIODE	2	B0JCPE000013
D1705,06	MA8056-MH	DIODE	2	
D1708	MA142WK	DIODE	1	
D1710	MA720	DIODE	1	
D1711	MA142WK	DIODE	1	
D1720,21	MA8030-H	DIODE	2	
D1803,04	NSQ03A04	DIODE	2	B0JCPE000013
D1805,06	MA8056-MH	DIODE	2	
D1807	MA142WA	DIODE	1	
D1808	MA142WK	DIODE	1	
D1809,10	MA720	DIODE	2	
D1811	MA8030-H	DIODE	1	
D1813	MA8030-H	DIODE	1	
IC1501	C0ABBA000071	IC	1	
IC1602	C0DBAKG00004	IC	1	
IC1702,03	C0DBAGH00030	IC	2	
IC1801,02	C0DBAGH00030	IC	2	
JP1501-03	VJR1008	EARTH LUG	3	
L1501	G1A220F00006	COIL 22UH	1	
L1602	G1A4R7H00002	COIL 4.7UH	1	
L1603	VLQ0859M470	COIL 47UH	1	
L1604	J0JKC0000009	FILTER	1	
L1605	J0JBC0000023	FILTER	1	
L1609	G1A4R7H00002	COIL 4.7UH	1	
L1701	G1A4R7H00002	COIL 4.7UH	1	
L1702,03	J0JBC0000023	FILTER	2	
L1704,05	J0JKC0000009	FILTER	2	
L1706,07	VLQ0859M470	COIL 47UH	2	
L1709	G1A4R7H00002	COIL 4.7UH	1	
L1712	G1A4R7H00002	COIL 4.7UH	1	
L1801	G1A4R7H00002	COIL 4.7UH	1	
L1802,03	J0JBC0000023	FILTER	2	
L1804,05	J0JKC0000009	FILTER	2	
L1806,07	VLQ0859M100	COIL 10UH	2	
L1812	G1A4R7H00002	COIL 4.7UH	1	
P1501	VJP3926A024	CONNECTOR (MALE)	1	
P1502	K1KA06A00031	CONNECTOR (MALE)	1	
P1503	K1KA08A00119	CONNECTOR (MALE)	1	
Q1501	2SD601A-R	TRANSISTOR	1	
Q1502	2SC3074Y	TRANSISTOR	1	B1BADF000002
Q1503	2SB936A-Q	TRANSISTOR	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1504	2SD1819A-R	TRANSISTOR	1	
Q1602	B1DFFD000006	FET	1	
Q1701-04	B1DFFD000006	FET	4	
Q1705,06	2SD1819A-R	TRANSISTOR	2	
Q1708,09	2SD1819A-R	TRANSISTOR	2	
Q1801-04	B1DFFD000006	FET	4	
R1501	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R1502,03	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	D0GD221JA003
R1504,05	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R1506	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1507	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R1508	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1509	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R1510-12	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	3	
R1513	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R1609	ERJL1WKJ47M	M.RESISTOR CH 1W	1	
R1619	ERJ6RED474	M.RESISTOR CH 1/10W 470K	1	
R1623	ERJ6RBD243	M.RESISTOR CH 1/10W 24K	1	
R1626	ERJ6RBD393	M.RESISTOR CH 1/10W 39K	1	
R1627	ERJ6RBD182	M.RESISTOR CH 1/10W 1.8K	1	
R1628	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R1648	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1650	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
⚠ R1659	K5H312300003	FUSE	1	
R1701,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1705,06	ERJL1WKJ47M	M.RESISTOR CH 1W	2	
R1707,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1711,12	ERJ6RED184	M.RESISTOR CH 1/10W 180K	2	
R1713	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R1714	ERJ6RED154	M.RESISTOR CH 1/10W 150K	1	
R1715	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1716	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R1717,18	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1719	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1721,22	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R1723,24	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R1725	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1730,31	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R1801,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1805,06	VRE0202H22M	M.RESISTOR	2	
R1807,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	D0YDR0000005
R1809	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1810	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1811	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1812	ERJ6RED274	M.RESISTOR CH 1/10W 270K	1	
R1813	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1814	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1815,16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R1820,21	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
T1501	VLT0889	TRANSFORMER	1	G4ZZ00000368
		MISCELLANEOUS		
	VSC5620	SHIELD A	1	
	VMP5861	P.C.B. HOLDER ANGLE (L)	1	
	VMP5862	P.C.BOARD FIX ANGLE (R)	1	
	XTV3+6F	SCREW	2	
	VKC0295	BOARD SPACER	1	
■ E13	VEP80A88A	POWER CONNECT P.C.BOARD	1	(RTL)
P1,P2	K1KB06B00035	CONNECTOR (FEMALE)	2	
■ E14	VEP80C73B	MOTHER P.C.BOARD	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
JP1-P6	VJR1008	EARTH LUG	6	
P101	K1KA08A00441	CONNECTOR (MALE)	1	
P103-05	K1KA08A00441	CONNECTOR (MALE)	3	
P111	VJS4232A030	CONNECTOR (FEMALE)	1	K1KB30A00003
P112	VJP3926A024	CONNECTOR (MALE)	1	
P201-05	VJS4064N160E	CONNECTOR (FEMALE)	5	K1KAG0A00006
P206	VJS4064K140E	CONNECTOR (FEMALE)	1	K1KAE0A00007
P301,02	VJS3600F030K	CONNECTOR (FEMALE)	2	
P303	VJS3406D020	CONNECTOR (FEMALE)	1	K1MN20B00029
P401,02	K1MN40A00007	CONNECTOR	2	
P403	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048
		MISCELLANEOUS		
	VKC0295	BOARD SPACER	2	
	VEE1A29	SHIELD CABLE	1	
	VJF0300	A/C HEAD BINDER	1	
■ E15	VEP86343A	FRONT P.C.BOARD	1	(RTL)
C1-C3	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	3	F1J1H121A025
C4,C5	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	F1J1H101A025
C6-C8	F1L1A4760003	C.CAPACITOR CH 16V 47U	3	
C9-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C13	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C14,15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C16	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C18	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C100	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C101-04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C200	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
D1-D5	MA3X15300L	DIODE	5	
D200-04	LN38GCPP	LED	5	
DP100	VSL0489	DISPLAY	1	A2BA00000191
IC1	C2CBKJ000078	IC	1	
IC2	TL7705CPSB	IC	1	C0EBS0000002
IC3	C0JBAB000350	IC	1	
IC100,01	MN12511S	IC	2	
ID0	VVVSI4330A	SOFTWARE	1	DOWNLOAD ONLY
J1	VJJ0571	JACK	1	
L1,L2	G1C101K00022	COIL 100UH	2	
P1	VJS3537B024G	CONNECTOR (FEMALE)	1	K1MN24B00048
P2	K1KA03A00017	CONNECTOR (MALE)	1	
P3	K1KA06A00031	CONNECTOR (MALE)	1	
P200	VJS4243B018	CONNECTOR (FEMALE)	1	K1MN18B00032
Q100-06	2SB710A-R	TRANSISTOR	7	
Q200-11	2SD0601ARL	TRANSISTOR	12	
QR100-06	MUN2213	TRANSISTOR-RESISTOR	7	
R3	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
⚠ R4	K5H1023A0001	FUSE	1	
R5	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005
R6,R7	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R8,R9	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R10	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R11	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	D0GD105JA003

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R12,13	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R14-17	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	4	
R18,19	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R20-22	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	3	
R23	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R24	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R25	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R107	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R110	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R111	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R112	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R113	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R114	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R115	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R118	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R119	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R120	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R121-27	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	7	
R200-02	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	3	
R203	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R204,05	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R206	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R207	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R208-10	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	3	
R211	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R212	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R213,14	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R215	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R216	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R217,18	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R219	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R220	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R221,22	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R224	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R225	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R226	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R227,28	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	D0GD332JA003
R229	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R230	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	D0GD332JA003
R231	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
SW203	VSS0249	SWITCH	1	K0D113A00050
SW205	VSS0250	SWITCH	1	K0D112A00104
SW206	VSS0249	SWITCH	1	K0D113A00050
SW65102	EVQQS307K	SWITCH	1	
SW65105	EVQQS307K	SWITCH	1	
SW65107,08	EVQQS307K	SWITCH	2	
VR1	EVJYM0F15C23	V.RESISTOR 2K	1	
X1	H0J100500016	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VJF1360	DISPLAY HOLDER	1	
	VGQ0458	SPACER	5	
	QJT0015	GND TERMINAL	1	
■ E16	VEP83626A	V JACK P.C.BOARD	1	(RTL)
C1,C2	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3,C4	EEFCD0K330R	E.CAPACITOR 8V 33U	2	
C5,C6	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C7	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C9,10	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C12-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C17,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C19	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
C21,22	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	2	
C23,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C25	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C26,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C28	ECJ1VC1H270J	C.CAPACITOR CH 50V 27P	1	
D1	MA3062M	DIODE	1	
D3,D4	MA3062M	DIODE	2	
D5	MA716	DIODE	1	
D6	MA142K	DIODE	1	
D7	MA3062M	DIODE	1	
IC1	C0CBADD00003	IC	1	
IC2	XC62DN5002M	IC	1	
J1-J3	K1QBB2AA0005	CONNECTOR	3	
J4	K2HA205A0004	JACK	1	
J5	K1QBB2AA0005	CONNECTOR	1	
L1,L2	VLP0183	COIL	2	J0JKC0000007
L3-L8	VLP0145	COIL	6	
P1,P2	VJS3421A020	CONNECTOR (FEMALE)	2	K1MN20A00027
P3	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016
Q1	XN4501	TRANSISTOR-RESISTOR	1	
Q3,Q4	XN4501	TRANSISTOR-RESISTOR	2	
Q5	2SA1532-B	TRANSISTOR	1	
Q6	XN4501	TRANSISTOR-RESISTOR	1	
Q7	2SC2295	TRANSISTOR	1	
R1	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3,R4	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R5	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R7,R8	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R9	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R11,12	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R13,14	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R17-20	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	4	
R21	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R22	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R23	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R26	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R27	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R29	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R30	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R31	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R32	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R33,34	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R35	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R36	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R37,38	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R39	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R40,41	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R42	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R43	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R44	ERJ12YJ101H	M.RESISTOR CH 1/2W 100	1	
SW1	VSS0307	SWITCH	1	K0D122A00105
		MISCELLANEOUS		
	VMP5301	D SUB HOLDER ANGLE	1	
■ E17	VEP84394B	A JACK P.C.BOARD	1	(RTL)
C201-04	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C229-32	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	4	
J201,02	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003
J203,04	K1AB103A0007	CONNECTOR (MALE)	2	
J205,06	VJP3417	CONNECTOR (MALE)	2	K1AA103A0003
J207,08	K1AB103A0007	CONNECTOR (MALE)	2	
L201	VLP0145	COIL	1	
L203	VLP0145	COIL	1	
L205,06	VLP0145	COIL	2	
L208	VLP0145	COIL	1	
L210	VLP0145	COIL	1	
L212	VLP0145	COIL	1	
L214,15	VLP0145	COIL	2	
L217	VLP0145	COIL	1	
L219,20	VLP0145	COIL	2	
L222	VLP0145	COIL	1	
L224,25	VLP0145	COIL	2	
L227	VLP0145	COIL	1	
L229-31	VLP0145	COIL	3	
L233	VLP0145	COIL	1	
L235,36	VLP0145	COIL	2	
L238	VLP0145	COIL	1	
L240	VLP0145	COIL	1	
P201	VJS3421A028	CONNECTOR (FEMALE)	1	K1MN28A00007
■ E18	VEP86344A	KEY P.C.BOARD	1	(RTL)
P301	VJS2582B018	CONNECTOR (FEMALE)	1	K1MN18B00028
R301,02	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R303	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R304	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R305	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R306	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R307	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R308	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R309	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R310	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R311	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R312	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R313	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R314	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R315	ERJ14YJ181	M.RESISTOR CH 1/4W 180	1	
SW301	VST0331	SWITCH	1	K0C112B00006
SW302	VSP0853A000	SWITCH	1	K0F111A00235
SW303	VSP0792	SWITCH	1	K0F111A00280
SW304	K0F111A00426	SWITCH	1	
SW305	VSP0791	SWITCH	1	K0F111A00279
SW306	VSP0790	SWITCH	1	K0F111A00278
SW307	VSP0793	SWITCH	1	K0F111A00281
SW308	VSP0789	SWITCH	1	K0F111A00283
■ E19	VEP86346A	REC VR P.C.BOARD	1	(RTL)
P65401	VJP1610T	CONNECTOR (MALE)	1	K1KA06B00059
VR65401,02	EVU023003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0E69	REC VR CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E20	VEP86347A	PB VR P.C.BOARD	1	(RTL)
P65301	VJP1611T	CONNECTOR (MALE)	1	K1KA07B00032
VR65301,02	EVU023006B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VEE0E70	PB VR CABLE	1	
■ E21	VEP86345A	FRONT CONNECT P.C.BOARD	1	(RTL)
C66000	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C66001	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C66002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C66003	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
IC66000	TL7705CPSB	IC	1	C0EBS0000002
P66001,02	VJS3537A024G	CONNECTOR (FEMALE)	2	K1MN24A00027
P66003	VJP1599T	CONNECTOR (MALE)	1	K1KA06A00125
P66004	VJP1600T	CONNECTOR (MALE)	1	K1KA07A00066
P66005	K1KA03A00017	CONNECTOR (MALE)	1	
R66000	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R66001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
■ E22	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	
■ E23	VEP82249B	SERVO P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C5	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C6	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C9,10	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C11,12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C15	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C16	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C17,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C19,20	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	2	
C21-24	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C28,29	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C30	F1J0J475A006	C.CAPACITOR CH6.3V 4.7U	1	
C100	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C101-04	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	4	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C109-11	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C112-15	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C116,17	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C200	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C209,10	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	2	
C211	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C218	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C219,20	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C222	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C300-03	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C304	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C305,06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C307	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C308-14	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C315,16	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C317-21	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C322	F1L1A4760003	C.CAPACITOR CH 16V 47U	1	
C323	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C324,25	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C326,27	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C328	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C350-60	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	11	
C400,01	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C403-06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	4	
C407,08	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C409	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C410,11	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	2	
C412-16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	5	
C417,18	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C450,51	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	F1K1C105A026
C452,53	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C454,55	EEVHB1C470P	E.CAPACITOR 16V 47U	2	
C456-58	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C700-02	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	F1J1H103A010
C703	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C704	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C705	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C706	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C707	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C708,09	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C710	F1K0J1060002	C.CAPACITOR CH6.3V 10U	1	
C711,12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C713-15	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	3	
C716	F1K0J1060002	C.CAPACITOR CH6.3V 10U	1	
C717,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C719	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C720	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C721	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C722,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C724	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C725	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C726,27	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C800-06	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	7	
C807	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C808	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C809	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C810	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C811	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	F1K1C105A026
C812-14	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C815	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	
C816	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C817,18	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C819,20	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	2	
C900	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C901	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C902	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C903	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C904,05	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C906	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C907	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C908	EEVHB1E330P	E.CAPACITOR 25V 33U	1	
C909	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C910	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C911	EEVHB1E330P	E.CAPACITOR 25V 33U	1	
C5001,02	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5003,04	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C5005	F2H1D470A004	E.CAPACITOR CH 20V 47U	1	
C5006	EEVHB1E470P	E.CAPACITOR 25V 47U	1	
C5007,08	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C5009,10	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C5011,12	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C5013,14	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C5015,16	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	2	
C6001	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6002	VCE0180	E.CAPACITOR 25V 100U	1	F2G1E1010003
C6003,04	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C6005	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	1	
C6006,07	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	2	
C6008,09	VCE0180	E.CAPACITOR 25V 100U	2	F2G1E1010003
C6010-12	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C6013	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6014	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C6015	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6016	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C6017	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6018-20	ECJ1VF1E104Z	C.CAPACITOR CH 25V 0.1U	3	
C6021,22	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	F1K1C105A026
D1-D4	MA8075-H	DIODE	4	
D5,D6	MA142K	DIODE	2	
D8	MA147	DIODE	1	
D300-02	MA147	DIODE	3	
D403,04	MA142K	DIODE	2	
D405-07	MA147	DIODE	3	
D408	MA142K	DIODE	1	
D450,51	MA142K	DIODE	2	
D800	MA142WK	DIODE	1	
D801	MA142K	DIODE	1	
D802-05	MA142WK	DIODE	4	
D806	MA147	DIODE	1	
D807,08	MA142WK	DIODE	2	
D809	MA142WA	DIODE	1	
D810	MA8051-M	DIODE	1	
D811	MA8082-H	DIODE	1	
D812	MA142WK	DIODE	1	
D813	MA142K	DIODE	1	
D814	MAZ80330HL	DIODE	1	
D815	MA8039-H	DIODE	1	MAZ80390HL
D5001,02	MA2J72800L	DIODE	2	
D5003,04	MA2Q73600L	DIODE	2	
D6001,02	MA2J72800L	DIODE	2	
D6003,04	MA2Q73600L	DIODE	2	
D6005	MA142K	DIODE	1	
IC1	TC4052BF	IC	1	
IC2	C0ABBB000179	IC	1	
IC3	C0JBAZ000994	IC	1	
IC4	TC4052BF	IC	1	
IC5-C8	C0ABBB000179	IC	4	
IC9,10	C0ABBB000184	IC	2	
IC11,12	C0BBBA000044	IC	2	
IC13	C0JBAZ000994	IC	1	
IC17	C0ABBB000184	IC	1	
IC20	C0BBBA000044	IC	1	
IC23	C0JBAB000397	IC	1	
IC24	C0JBAZ001121	IC	1	
IC26-28	C0JBAZ001121	IC	3	
IC29	C0JBAZ001003	IC	1	
IC33-35	C0ABBB000179	IC	3	
IC36,37	C0ABBA000075	IC	2	
IC38	C0BBBA000044	IC	1	
IC41	C0BBBA000044	IC	1	
IC42	C0ABBB000184	IC	1	
IC46	C0JBAF000487	IC	1	
IC47,48	C0JBAM000111	IC	2	
IC49	C0JBAZ001120	IC	1	
IC50	C0JBAM000111	IC	1	
IC51	C0JBAZ001120	IC	1	
IC52	C0JBAM000111	IC	1	
IC53	C0ABBA000075	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC54	C0BBBA000044	IC	1	
IC302	MN1030F04KHF	IC	1	
IC350	X9288L7T144	IC	1	
IC351	X9144L7T100	IC	1	
IC400	M62370GP	IC	1	C0FBBD000082
IC700	AN3890FBS	IC	1	
IC701	TB6519F	IC	1	C0GBY0000011
IC900	C0CBABD00005	IC	1	
IC5001,02	MN13821-S	IC	2	
IC6001	TL1451CNS	IC	1	C0DBAMA00001
ID0	VVVSI4281A	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4289A	SOFTWARE	1	DOWNLOAD ONLY
J900-02	K4CD01000007	CABLE TERMINAL	3	
L900-04	VLF1151A132	COIL	5	
L5001,02	VLQ0407120M	COIL 12UH	2	G0A120HA0007
L5003,04	VLQ0650M151	COIL 150UH	2	G1C151MA0016
L6001,02	VLQ0650M151	COIL 150UH	2	G1C151MA0016
P300	VJS3791B020	CONNECTOR (FEMALE)	1	
P350	K1KA08B00147	CONNECTOR (FEMALE)	1	
P900,01	K1MN40A00007	CONNECTOR	2	
P902	K1KA08A00119	CONNECTOR (MALE)	1	
P903	K1KBA0A00084	CONNECTOR (FEMALE)	1	
Q450,51	2SD601A	TRANSISTOR	2	
Q700	PU3210	TRANSISTOR	1	PUA3210
Q701	PU3110	TRANSISTOR	1	PUA3110
Q702	2SB1073-R	TRANSISTOR	1	
Q703	2SD1119-R	TRANSISTOR	1	
Q704	2SB1073-R	TRANSISTOR	1	
Q705	2SD1119-R	TRANSISTOR	1	
Q706	2SB1073-R	TRANSISTOR	1	
Q707	2SD1119-R	TRANSISTOR	1	
Q800	2SB710A	TRANSISTOR	1	
Q801,02	2SB1073-R	TRANSISTOR	2	
Q5001,02	2SD1819A-R	TRANSISTOR	2	
Q5003	2SB1174-Q	TRANSISTOR	1	2SB11740Q
Q5004	2SB1073	TRANSISTOR	1	
Q5005,06	2SD1819A-R	TRANSISTOR	2	
Q6001,02	2SB1174-Q	TRANSISTOR	2	2SB11740Q
QR1-R4	UNR521300L	TRANSISTOR	4	
QR9	UNR521300L	TRANSISTOR	1	
QR700	UNR521300L	TRANSISTOR	1	
QR701	UN5217	TRANSISTOR-RESISTOR	1	
QR702	UNR521300L	TRANSISTOR	1	
QR703	UNR521400L	TRANSISTOR-RESISTOR	1	
QR800	UNR521400L	TRANSISTOR-RESISTOR	1	
QR801	UNR511300L	TRANSISTOR	1	
QR802	UNR521400L	TRANSISTOR-RESISTOR	1	
QR803	UNR521300L	TRANSISTOR	1	
QR806	UNR521300L	TRANSISTOR	1	
QR807,08	UNR521400L	TRANSISTOR-RESISTOR	2	
QR809	UNR521300L	TRANSISTOR	1	
QR810	UNR511300L	TRANSISTOR	1	
QR811-15	UNR521400L	TRANSISTOR-RESISTOR	5	
QR816	UNR511300L	TRANSISTOR	1	
QR5001,02	UNR521300L	TRANSISTOR	2	
QR6001,02	UNR511100L	TRANSISTOR	2	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R8	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R9	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R10	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R11	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R13	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R14	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R15	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R16	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R17	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R19	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R21	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R22	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R23	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R24	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R25	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R28	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R29	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R30	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R33	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R34	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R35	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R36	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R40,41	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	2	
R42,43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R46,47	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R49	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R51	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R54	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R55	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R56	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R57,58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R59	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R100	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R101	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R102	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R103	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R104	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R105	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R106	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R107	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R108	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R109	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R110	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R111	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R112	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R113	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R114	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R115	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R116-19	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	4	
R120,21	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R122-25	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R126-29	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R130-33	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R134-37	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	4	
R138	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R139	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R140	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R141	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R142,43	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R144,45	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R146-49	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	4	
R201	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R202	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R203	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R204	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R209	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R210	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R211	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R212	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R213,14	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R218,19	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R220,21	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R226,27	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R234,35	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R238,39	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R240,41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	

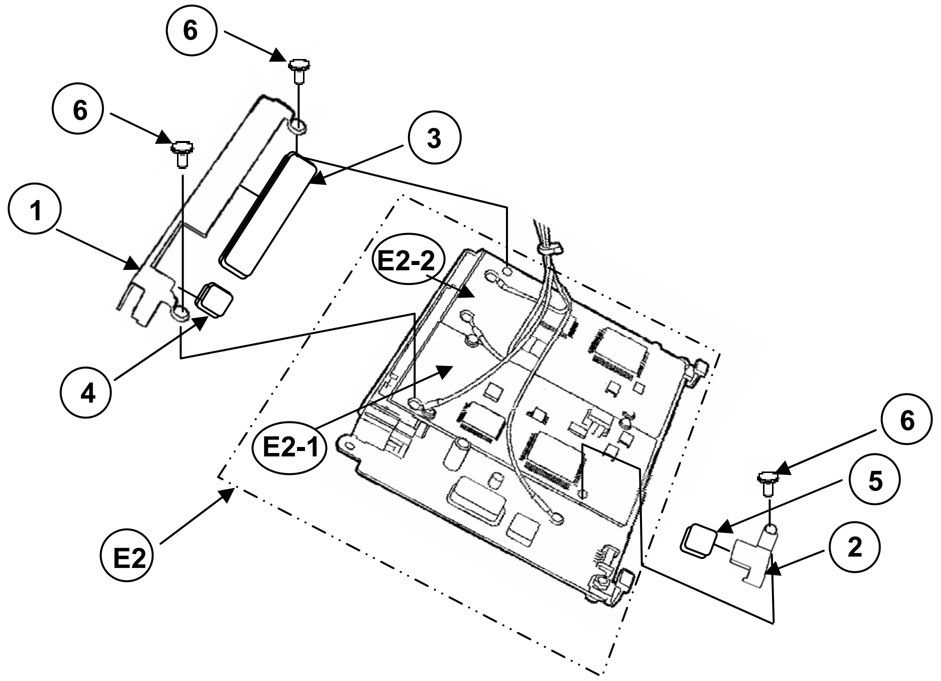
Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R242,43	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R244,45	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R300	EXBV8V470J	COMBI.R-R 47	1	
R301,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R303	EXBV8V470J	COMBI.R-R 47	1	
R304-06	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R307-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R310	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R311	EXBV8V473J	COMBI.R-R 47K	1	
R312	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R313	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R315,16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R317	EXBV8V101J	COMBI.R-R 100	1	
R318	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R320	EXBV8V470J	COMBI.R-R 47	1	
R321	EXBV8V473J	COMBI.R-R 47K	1	
R322,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R324	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R327	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R328	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R329	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R330-35	EXBV8V470J	COMBI.R-R 47	6	
R336	EXBV8V473J	COMBI.R-R 47K	1	
R337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R343	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R350	EXBV8V102J	COMBI.R-R 1K	1	
R351	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R352	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R354	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R357	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R358	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R359,60	EXBV8V470J	COMBI.R-R 47	2	
R361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R362	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R365	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R366,67	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R368	EXBV8V470J	COMBI.R-R 47	1	
R369	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R370	ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R400,01	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R402,03	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	2	
R407-09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R410,11	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R412,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R414,15	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	2	
R417	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R419	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R420,21	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R422	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R423	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R424-26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R428	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R429	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R430	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R431	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R432	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R450,51	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R452	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R453,54	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R455	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R456-59	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R460,61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R700-02	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	3	
R703	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R704	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R705	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R706,07	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R708	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R709	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R710,11	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R712	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R713	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R714	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R715	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R716-18	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	3	
R719	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R720-22	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	3	
R800	EXBV8V473J	COMBI.R-R 47K	1	
R801	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R802	EXBV8V473J	COMBI.R-R 47K	1	
R803	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R804	EXBV8V473J	COMBI.R-R 47K	1	
R805	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R806	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R807	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R808	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R809	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R811	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R812-15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R816	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R818	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R819	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R820	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R823	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R824	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R825	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R826	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R827,28	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R829-33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	D0GB103JA002
R834-36	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	3	
R837,38	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R839	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R840	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R841	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	D0GD222JA003
R842	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R843,44	ERJ8GEYJ181	M.RESISTOR CH 1/8W 180	2	
R845,46	ERJ3GEYJ155	M.RESISTOR CH 1/16W 1.5M	2	
R847,48	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	2	
R900	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R907-09	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R5001	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R5002	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R5003	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5004	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R5005-08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5009	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
⚠ R5010	K5H2523A0001	FUSE	1	
R5013,14	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R5015,16	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R5017,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5019,20	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	2	
R5021,22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5023,24	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5025,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5027-30	ERJ12YJ222	M.RESISTOR CH 1/2W 2.2K	4	
R5031,32	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R6001	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R6003,04	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R6005,06	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R6007,08	ERJ12YJ471	M.RESISTOR CH 1/2W 470	2	
R6009	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6010	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R6011	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R6012	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R6013	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R6014	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R6015	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6016	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6017,18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6019	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6020	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6021	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6022,23	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6024	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6025	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R6026	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6027,28	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R6029,30	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R6031	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R6032	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6033	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R6034,35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R6036	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
TG450	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP104-07	EYF6CU	TEST POINT	4	
TP204,05	EYF6CU	TEST POINT	2	
TP350-53	EYF6CU	TEST POINT	4	
TP371	EYF6CU	TEST POINT	1	
TP409	EYF6CU	TEST POINT	1	
TP800,01	EYF6CU	TEST POINT	2	
TP900	EYF6CU	TEST POINT	1	
X300	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

BOARD / JACK PANEL ASSEMBLY (AJ-YA120AG)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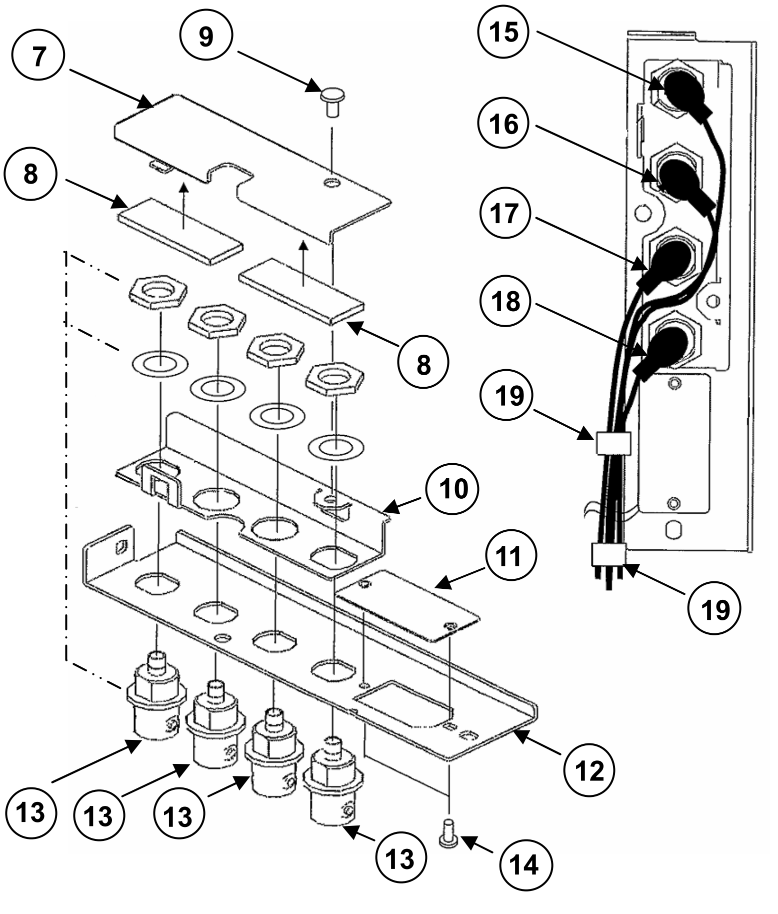
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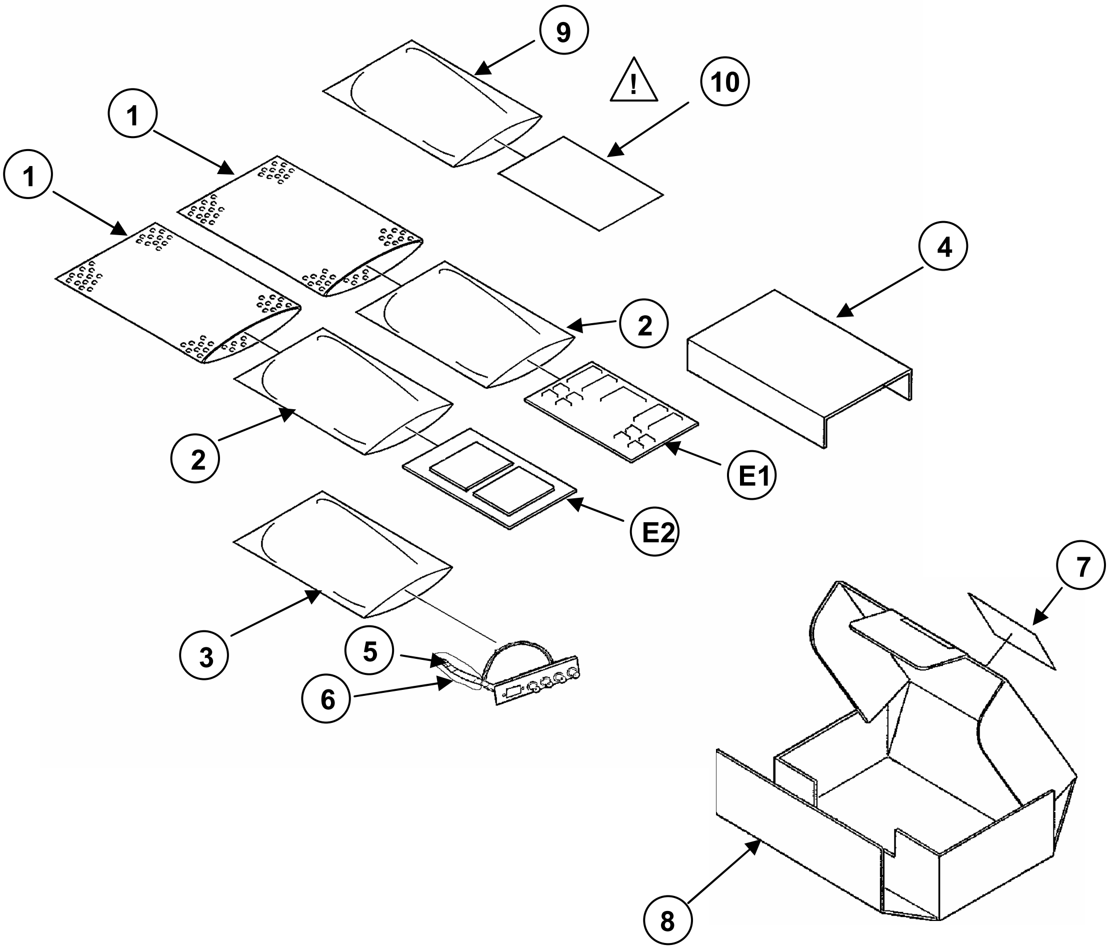
BOARD/JACK PANEL ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP6727	CONNECTOR MOUNT PLATE A	1	
2	VMP7966	CONNECTOR MOUNT PLATE B	1	
3	VMX3062	BNC CNCT HOLDER RUBBER	1	
4	VMX3064	CONNECTOR HOLDER RUBBER C	1	
5	VMX3405	CONNECTOR HOLDER RUBBER E	1	
6	XYN26+J6	SCREW	3	
7	VMP7964	BNC CONNECTOR SUPPORTER	1	
8	VMX3406	SUPPORT RUBBER (F)	2	
9	XTV3+6F	SCREW	1	
10	VMP7963	BNC CONNECTOR BASE PLATE	1	
11	VMP7965	BLIND PANEL	1	
12	VMP7958	OPTION PANEL	1	
13	K1SMBDBA0001	BNC	4	
14	XSB2+6FZ	SCREW	2	
15	VEE0E46380	COAXIAL CABLE	1	
16	VEE0E48380	COAXIAL CABLE	1	
17	VEE0E47380	COAXIAL CABLE	1	
18	VEE0E12380	COAXIAL CABLE	1	
19	VJF0300	A/C HEAD BINDER	3	
E2	VEP83634B	SGEN SDI P.C.BOARD	1	
E2-1	VEP83631A	HD SDI RX P.C.BOARD	1	FOR VEP83634B
E2-2	VEP83632A	HD SDI TX P.C.BOARD	1	FOR VEP83634B

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING ASSEMBLY (AJ-YA120AG)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.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PACKING PARTS ASSEMBLY

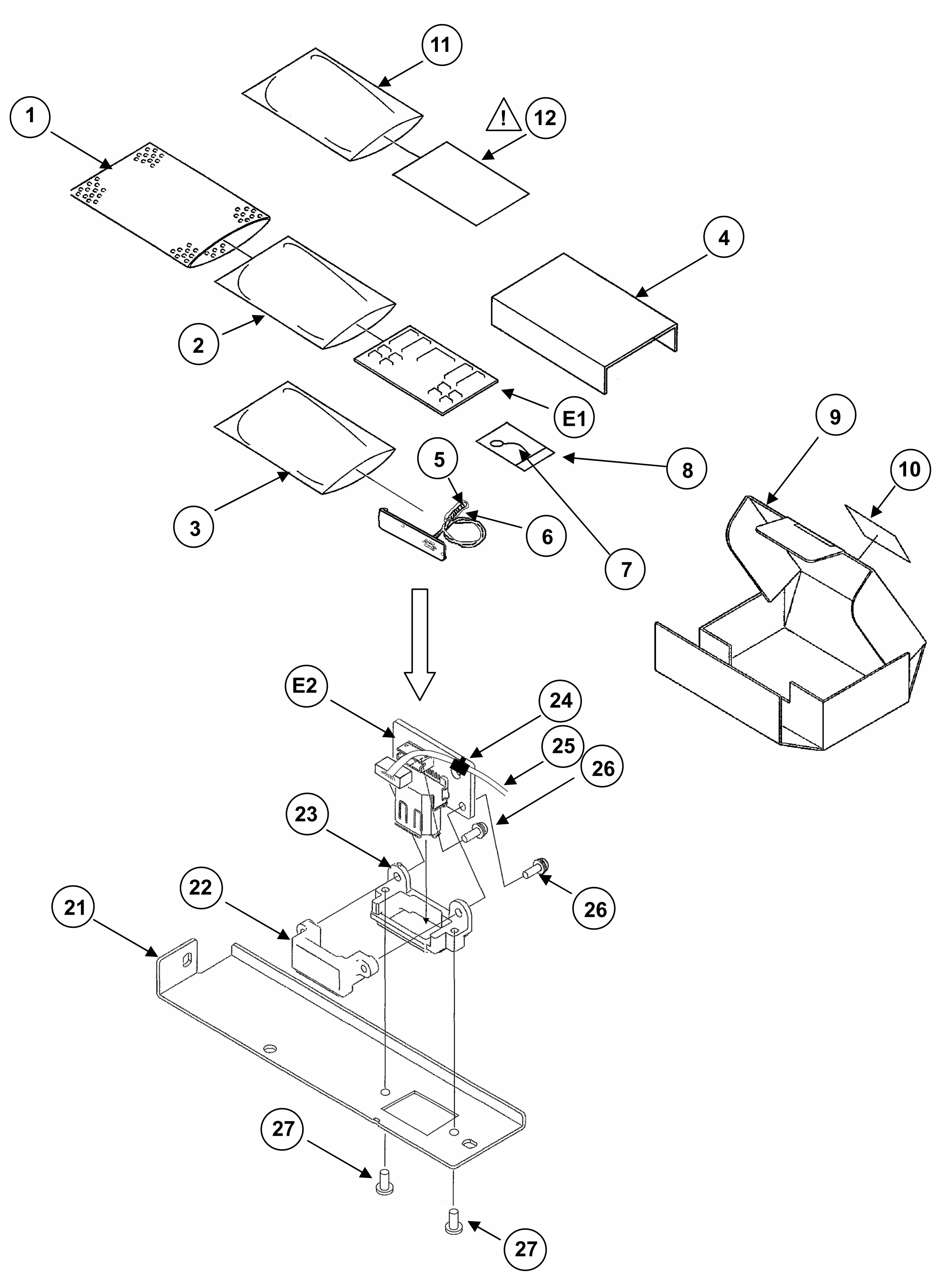
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPF0678	CUSHION BAG	2	
2	VPF0359	CONDUCTION BAG	2	
3	VPF0679	POLYETHYLENE BAG	1	
4	VPN5312	CUSHION	1	
5	VPF1016	POLYETHYLENE BAG (INNER)	1	
6	VPF0892	POLYETHYLENE BAG (OUTER)	1	
7	VQL9822	PACKING LABEL	1	
8	VPG6296	PACKING CASE	1	
9	VPF0681	POLYETHYLENE BAG	1	
⚠ 10	VQT0L39	OPERATING INSTRUCTIONS	1	
E1	VEP83573H	I/O CONV P.C.BOARD	1	
E2	VEP83634B	SGEN SDI P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING / JACK PANEL ASSEMBLY (AJ-YAD120AG)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.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PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPF0678	CUSHION BAG	1	
2	VPF0359	CONDUCTION BAG	1	
3	VPF0679	POLYETHYLENE BAG	1	
4	VPN5312	CUSHION	1	
5	VPF0508	POLYETHYLENE BAG (INNER)	1	
6	VPF0892	POLYETHYLENE BAG (OUTER)	1	
7	VJF0300	BIND	1	
8	VPF1016	POLYETHYLENE BAG	1	
9	VPG6296	PACKING CASE	1	
10	VQL9822	PACKING LABEL	1	
11	VPF0681	POLYETHYLENE BAG	1	
⚠ 12	VQT0140	OPERATING INSTRUCTIONS	1	
E1	VEP83651A	1394 IF P.C. BOARD	1	
21	VMP7959	OPTION PANEL	1	
22	VJF1490	CONNECTOR HOLDER (A)	1	
23	VJF1491	CONNECTOR HOLDER (B)	1	
24	VJF0300	BIND	1	
25	VEE0X36	DIF CABLE	1	
26	XYN2+J6	SCREW	2	
27	XSB2+6FZ	SCREW	2	
E2	VEP80D12A	CN P.C. BOARD	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

ELECTRICAL REPLACEMENT PARTS LIST
(AJ-YA120AG)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83573H	I/O CONV P.C.BOARD	1	(RTL)
■ E2	VEP83634B	SGEN SDI P.C.BOARD	1	(RTL)
■ E2-1	VEP83631A	HD SDI RX P.C.BOARD	1	(RTL)FOR VEP83634B
■ E2-2	VEP83632A	HD SDI TX P.C.BOARD	1	(RTL)FOR VEP83634B
■ E1	VEP83573H	I/O CONV P.C.BOARD	1	(RTL)
C100	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C101	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C102	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	
C103	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C104,05	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C106-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C112	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C113,14	EEFCD0J220R	E.CAPACITOR 6.3V 22U	2	
C115	EEFCD0G560R	E.CAPACITOR 4V 56U	1	
C116,17	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C206-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	20	
C340-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C345	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C346-50	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C351	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C352-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C361	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C362	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C363	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C364-69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C380	VCEA1CAP330	C.CAPACITOR 16V 33U	1	F2D1C3300002
C401-16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C420	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C500-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	16	
C602,03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C605-08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C610	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C612	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C614	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C618	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C619	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C620	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C621	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C622	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C623	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C624	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C625	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C626-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	19	
C700-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
IC100	LT1963EST	IC	1	
IC101,02	C0CBAAB00021	IC	2	
IC200-04	C0JBAF000315	IC	5	
IC205	C0JBAZ001880	IC	1	
IC206-09	TLCX245FT	IC	4	
IC210,11	C0JBAZ001880	IC	2	
IC212,13	TLCX245FT	IC	2	
IC214	C0JBAZ001880	IC	1	
IC215	TLCX245FT	IC	1	
IC216	C0JBAZ001880	IC	1	
IC217	TLCX245FT	IC	1	
IC218,19	TLCX00FT	IC	2	
IC340	C1ZBZ0001942	IC	1	
IC341	C3ABQG000041	IC	1	
IC342	C0JBAZ001907	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC400	UPD82277N003	IC	1	
IC401	C0JBAZ001880	IC	1	
IC500-11	C3ABQG000041	IC	12	
IC512-15	C3ABQB000001	IC	4	
IC600	C1ZBZ0001884	IC	1	
IC700	C0JBAZ001880	IC	1	
IC701	TVHC244FT	IC	1	
IC702-06	C0JBAF000315	IC	5	
IC709	S80715ANDC	IC	1	
ID1	VVVSI4241B	SOFTWARE	1	DOWNLOAD ONLY
IP700-02	C1ZBZ0001555	IC	3	
L100,01	VLF1151A132	COIL	2	
L102-05	VLP0192	COIL	4	
L108	VLP0192	COIL	1	
P100	VJP4064N160C	CONNECTOR (MALE)	1	K1KBG0A00006
P700,01	K1KA08B00147	CONNECTOR (FEMALE)	2	
R100	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R110	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R111	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R112-16	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R117	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R118	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R119	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R120-66	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	47	
R168	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R169-71	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R172,73	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R174	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R175-83	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	9	
R191-02	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	12	
R207	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R208	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R209	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R210	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R211-14	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	D0GB103JA002
R215-26	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	12	
R227,28	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R237	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R251	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R267	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R277	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R281	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R289	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R297	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R298	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R299	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R300	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R301	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R302	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R303	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R304	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R305	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R306	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R307	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R308	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R309	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R311-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R315	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R317,18	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R322	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R323	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R327	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R331	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R340	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R341	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R342,43	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R344	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R345	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R346-49	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R351	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R352	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R354-59	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	6	
R362-64	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R366	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R367,68	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R371	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R373	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R374	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R375,76	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R377	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R378,79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R380	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R381	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R382	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R383	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R384	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R410	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R411-14	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R418,19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R422-04	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	83	
R505-07	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	3	
R508,09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R511	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R519-22	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	4	
R600	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R601-03	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R604,05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R607-18	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	12	
R619	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R621	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R622	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R623	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R624,25	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R626	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R627	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R628	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R630	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R633	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R634	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R635-37	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R638	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R639	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R640	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R641	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R642	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R645	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R649,50	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R651	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R652	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R653-60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R661	ERDS2TJ180	C.RESISTOR 1/4W 18	1	
R700	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R701	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R702	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R703	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R704-08	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R709	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R710,11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R713	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R714-53	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	40	
R754	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R756	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R758,59	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R760	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R762-64	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R765	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R766,67	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R770	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R773	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R774	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R775	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R776	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R777	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
TG100-05	EYF6CU	TEST POINT	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TP200,01	EYF6CU	TEST POINT	2	
TP340,41	EYF6CU	TEST POINT	2	
TP343-52	EYF6CU	TEST POINT	10	
TP355,56	EYF6CU	TEST POINT	2	
TP358	EYF6CU	TEST POINT	1	
TP361	EYF6CU	TEST POINT	1	
TP363-65	EYF6CU	TEST POINT	3	
TP369,70	EYF6CU	TEST POINT	2	
TP372,73	EYF6CU	TEST POINT	2	
TP400-09	EYF6CU	TEST POINT	10	
TP600	EYF6CU	TEST POINT	1	
TP603,04	EYF6CU	TEST POINT	2	
TP606,07	EYF6CU	TEST POINT	2	
TP612,13	EYF6CU	TEST POINT	2	
TP615	EYF6CU	TEST POINT	1	
TP623-25	EYF6CU	TEST POINT	3	
TP654,55	EYF6CU	TEST POINT	2	
TP657-59	EYF6CU	TEST POINT	3	
TP700,01	EYF6CU	TEST POINT	2	
TP703	EYF6CU	TEST POINT	1	
TP705	EYF6CU	TEST POINT	1	
		MISCELLANEOUS		
	XYN3+K6	SCREW	6	
	VMX2020	P.C.BOARD POST	2	K9ZZ00000689
	VMP7960	UC P.C.B. MOUNT ANGLE	1	
■ E2	VEP83634B	SGEN SDI P.C.BOARD	1	(RTL)
■ E2-1	VEP83631A	HD SDI RX P.C.BOARD	1	(RTL)FOR VEP873634B
■ E2-2	VEP83632A	HD SDI TX P.C.BOARD	1	(RTL)FOR VEP873634B
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3	F3K1A2260001	T.CAPACITOR CH 10V 22U	1	FOR VEP83632A
C5	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C6	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C7	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	FOR VEP83632A
C8	EEFCD0K330R	E.CAPACITOR 8V 33U	1	FOR VEP83632A
C10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C10	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C11	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C12	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83632A
C12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C12	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C13	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	FOR VEP83631A
C14	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83632A
C14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C14	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	FOR VEP83631A
C15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C15	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	FOR VEP83632A
C15	F3K0J3360001	T.CAPACITOR CH6.3V 33U	1	FOR VEP83631A
C16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C16	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C17	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C17	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C18	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83631A
C18,19	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C19	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C20	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C20	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C21	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83631A
C22	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C22	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83631A
C23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C23	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C23	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C24	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C24	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C24	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C25	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C26	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C26	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C26	F3K0J3360001	T.CAPACITOR CH6.3V 33U	1	FOR VEP83631A
C27	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C27	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C27	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C28	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C28	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C28	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C29	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C29	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C29	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C30	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C30	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C30	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C31	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C31	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C31	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C32	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83631A
C32	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C33	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	FOR VEP83631A
C34	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C34	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C35	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C35	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C36	ECUM1H222JN	C.CAPACITOR CH 50V 2200P	1	F1J1H222A508 FOR VEP83631A
C37	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C38	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C38	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C39	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83632A
C39	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C40	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	FOR VEP83632A
C40	F3K0J3360001	T.CAPACITOR CH6.3V 33U	1	FOR VEP83631A
C41	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	FOR VEP83632A
C41	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C42	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	FOR VEP83632A
C42	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C43	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C43	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C44	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C45	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C45	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C46	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C46	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83631A
C47	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C48	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C48	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C49	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83631A
C49	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C50	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C50	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C51	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C51	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C52	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C53	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C54	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C54	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C55	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83632A
C55	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C56	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83632A
C56	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C57	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83632A
C57	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C58	EEFCD0K330R	E.CAPACITOR 8V 33U	1	FOR VEP83631A
C58	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	1	FOR VEP83632A
C59	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C59	F3K1C106A005	T.CAPACITOR CH 16V 10U	1	FOR VEP83632A
C60	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	FOR VEP83631A
C61	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C61	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C62	EEFCD0J470R	E.CAPACITOR 6.3V 47U	1	FOR VEP83631A
C63	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83631A
C67	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1	FOR VEP83632A
C68	EEFCD0K330R	E.CAPACITOR 8V 33U	1	FOR VEP83632A
C69-72	F1H0J2250003	C.CAPACITOR CH6.3V 2.2U	4	FOR VEP83632A
C73	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83632A
C101,02	ECJ1VC1H330J	C.CAPACITOR CH 50V 33P	2	
C103	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C104	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C105-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	9	
C116	ECA1CEN470	E.CAPACITOR 16V 47P	1	
C120	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C126,27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C129	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C131	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C132	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C137	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C140	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C144	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C146	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C147	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C148	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C150	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C152	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C153	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C154	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C156	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C159,60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C162	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C165,66	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C200-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C204	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C205,06	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C300	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C301	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C302	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C303,04	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C305,06	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C307	EEVHP1E3R3	E.CAPACITOR 25V 3.3U	1	
C308,09	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C310,11	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C312	ECJ1VC1H220J	C.CAPACITOR CH 50V 22P	1	
C313	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C314-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C318	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C319	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C320-22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C323	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C324	EEVHP1E3R3	E.CAPACITOR 25V 3.3U	1	
C325	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C326-28	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C329	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C330-33	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C334,35	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C336-38	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C339	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C340	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C341-43	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C344	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C345-48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C350-52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C400,01	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C402	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C403-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C406	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C407	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C408	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C409-14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C415	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C416	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C417	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C418	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C422-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C426	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C503-05	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C508	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C510-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C514	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C516,17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C519	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C520-26	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C527,28	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2	
C529-32	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C602-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	11	
C613	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C614	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C615	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C616	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C617,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C619	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C620	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C621	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C622,23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C624	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C625	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C626-44	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	19	
C701,02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C703	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C704-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C707	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C708,09	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C710	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
D300,01	MA3J14300L	DIODE	2	
D400,01	MA3J14300L	DIODE	2	
D402	MA4030-L	DIODE	1	
D500,01	MA3J14300L	DIODE	2	
IC2	C0CBABD00005	IC	1	
IC3	C0CBAAD00008	IC	1	FOR VEP83632A
IC3	C0CBABD00005	IC	1	
IC3	C1AB00001653	IC	1	FOR VEP83631A
IC4	C0CBAAD00008	IC	1	FOR VEP83631A
IC4	C0JBBZ000174	IC	1	FOR VEP83632A
IC5	C1AB00001900	IC	1	FOR VEP83631A
IC5	C1ZBZ0001555	IC	1	
IC5	C9ZB00000361	IC	1	FOR VEP83632A
IC6	C1ZBZ0002146	IC	1	FOR VEP83632A
IC6	C9ZB00000361	IC	1	FOR VEP83631A
IC6	LT1129CS8	IC	1	
IC7	C0JBBZ000174	IC	1	FOR VEP83631A
IC7	LT1175CS8	IC	1	
IC8	C1ZBZ0001555	IC	1	
IC8	LT1086CM33	IC	1	FOR VEP83631A
IC100	TC7W53FU	IC	1	
IC101	C1AB00000234	IC	1	
IC102	C0JBAM000039	IC	1	
IC103	C0BBZB000001	IC	1	
IC104	C0JBAM000039	IC	1	
IC105	C0JBCA000066	IC	1	
IC106	C0JBAM000045	IC	1	
IC107	C0JBAA000175	IC	1	
IC108	C0ABEB000017	IC	1	
IC109	AD8055AR	IC	1	C0ABGB000013
IC112	GS4981-C	IC	1	
IC114	TC7W53FU	IC	1	
IC116	TC7W53FU	IC	1	
IC119	C0BBZB000001	IC	1	
IC200	UPD65650J203	IC	1	C1ZBZ0001380
IC201	C0JBAM000039	IC	1	
IC300-02	MM74HC221AM	IC	3	C0JBAM000078
IC303	C0JBAM000039	IC	1	
IC304-06	C0ABEB000017	IC	3	
IC307	C0JBAR000353	IC	1	
IC308	C0JBAS000075	IC	1	
IC309	TC7W53FU	IC	1	
IC310	C0JBAB000200	IC	1	
IC311	C0JBAZ000851	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC312	XC62GR5022P	IC	1	
IC314	C0JBAZ000279	IC	1	
IC316	XC62GR5022P	IC	1	
IC320	C0JBAZ000606	IC	1	
IC338	C0JBAA000175	IC	1	
IC339	C0BBZB000001	IC	1	
IC340	C0JBAA000261	IC	1	
IC400	C0JBAA000175	IC	1	
IC401	C0JBAZ000279	IC	1	
IC403	C0ABEB000017	IC	1	
IC405	DS90LV047AC	IC	1	
IC406	C0JBAZ000851	IC	1	
IC407	C0CBADD00003	IC	1	
IC408	C0CBBDB00004	IC	1	
IC409,10	TC7W53FU	IC	2	
IC411	C0CBABD00005	IC	1	
IC500	C0JBAA000175	IC	1	
IC502,03	C0ABEB000017	IC	2	
IC504	C0JBAZ000279	IC	1	
IC506	C0JBAZ000851	IC	1	
IC508	M62370GP	IC	1	C0FBBD000082
IC509	C0CBBDB00004	IC	1	
IC510	C0CBADD00003	IC	1	
IC600	C0JBAZ001728	IC	1	
IC601	C0JBAZ001003	IC	1	
IC602,03	IDTLVC16245F	IC	2	
IC604	C0JBAZ000851	IC	1	
IC605,06	TLCX245FT	IC	2	
IC609	C0JBAB000200	IC	1	
IC610	C0JBAZ001728	IC	1	
IC613	C1ZBZ0002370	IC	1	
IC614	DS90LV047AC	IC	1	
IC615	DS90CR218MTD	IC	1	C0ZBZ0000468
IC618,19	C0CBABD00005	IC	2	
IC620	DS90LV048AC	IC	1	
IC622	DS90CR217MTD	IC	1	C0ZBZ0000466
IC623	TLCX04F	IC	1	
IC624,25	C0JBAZ001825	IC	2	
IC700	C1AB00001386	IC	1	
IC701	C0CBADD00003	IC	1	
ID0	VVVSI4287B	SOFTWARE	1	DOWNLOAD ONLY
J1-J3	VJP4131	CONNECTOR (MALE)	3	K1QZB1AD0003 FOR VEP83631A
J4	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83631A
J5	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83631A
J5 02	VJP4131	CONNECTOR (MALE)	1	K1QZB1AD0003 FOR VEP83632A
J700,01	VJP4131	CONNECTOR (MALE)	2	K1QZB1AD0003
L1	VLP0183	COIL	1	J0JKC0000007
L3	VLP0183	COIL	1	J0JKC0000007 FOR VEP83632A
L4	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83631A
L4	VLP0183	COIL	1	J0JKC0000007 FOR VEP83632A
L5	G1C6N8J00006	COIL 6.8UH	1	FOR VEP83631A
L5	VLF1151A132	COIL	1	FOR VEP83632A
L5	VLP0183	COIL	1	J0JKC0000007
L6	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83632A
L6	VLP0173	COIL	1	J0JGC0000015 FOR VEP83631A
L6	VLP0183	COIL	1	J0JKC0000007
L7	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83631A
L7	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83632A
L7	VLP0183	COIL	1	J0JKC0000007
L8	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83631A
L13	G1C3N3Z00008	COIL 3.3UH	1	FOR VEP83632A
L100	VLQ0163J390	COIL 39UH	1	
L101	VLQ0163J680	COIL 68UH	1	
L300	J0JCC0000119	FILTER	1	
L301	G1C221J00003	COIL 220UH	1	
L700,01	VLQ0426J010	COIL 1UH	2	
P1	VJP4064Q160	CONNECTOR (MALE)	1	K1KBG0B00002
P2	VJS4064K100E	CONNECTOR (FEMALE)	1	K1KAA0A00055 FOR VEP83631A
P2	VJS4064K100E	CONNECTOR (FEMALE)	1	K1KAA0A00055 FOR VEP83632A
P2	VJS4168B008	CONNECTOR (FEMALE)	1	K1KB08B00038
P3	K1KA08B00147	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P600	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A00020
P700	VJP4064K100C	CONNECTOR (MALE)	1	K1KAA0A00020
Q1	B1ABBB000017	TRANSISTOR	1	FOR VEP83632A
Q2	2SC5185	TRANSISTOR	1	FOR VEP83631A
Q3	B1ABBB000017	TRANSISTOR	1	FOR VEP83632A
Q3	B1ABBB000021	TRANSISTOR	1	FOR VEP83631A
Q4	2SC5185	TRANSISTOR	1	FOR VEP83631A
Q5	2SC5185	TRANSISTOR	1	FOR VEP83632A
Q5	B1ABBB000021	TRANSISTOR	1	FOR VEP83631A
Q6,Q7	2SC5185	TRANSISTOR	2	FOR VEP83632A
Q100	2SD601A-R	TRANSISTOR	1	
Q101	2SA1532-B	TRANSISTOR	1	
Q102,03	2SD601A-R	TRANSISTOR	2	
R1	EXBV8V102J	COMBI.R-R 1K	1	
R2	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R3	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R3	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	FOR VEP83631A
R4	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R4	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R4	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	FOR VEP83631A
R5	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R5	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R6	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R6	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R7	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R7	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R7	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	FOR VEP83631A
R8	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R9	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R9	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R9	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	FOR VEP83631A
R10	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R11	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R11	EXBV8V101J	COMBI.R-R 100	1	
R12	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R12	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83631A
R13	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R13,14	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	FOR VEP83631A
R15	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R15	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83631A
R16	D1H810040003	COMBI.R-R 10	1	FOR VEP83632A
R16	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83631A
R17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R18,02	D1H810040003	COMBI.R-R 10	2	FOR VEP83632A
R19	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	FOR VEP83631A
R20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005 FOR VEP83631A
R21	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R21	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	D0YDR0000005 FOR VEP83631A
R22,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83632A
R23	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83631A
R24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R24	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	FOR VEP83631A
R25	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R26	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R26	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	FOR VEP83631A
R27	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83631A
R30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002 FOR VEP83632A
R31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83632A
R32	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R33	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R33	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R34	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	FOR VEP83631A
R34	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R35	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R35	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	FOR VEP83631A
R36	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R36,37	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	2	FOR VEP83631A
R37	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83632A
R38	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83631A
R39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R41	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R42	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R43	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R43	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	FOR VEP83632A
R44	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	FOR VEP83631A
R44	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	FOR VEP83632A
R45	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	FOR VEP83631A
R46	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R46	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	FOR VEP83631A
R47	D1H84704A008	COMBI.R-R 47	1	FOR VEP83631A
R47	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R48	D1H84704A008	COMBI.R-R 47	1	FOR VEP83631A
R48	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R49,50	D1H84704A008	COMBI.R-R 47	2	FOR VEP83631A
R50	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83632A
R51	D1H84704A008	COMBI.R-R 47	1	FOR VEP83631A
R52	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R52	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	FOR VEP83631A
R53	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83631A
R54	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R54	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83631A
R55	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83631A
R56	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83632A
R56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83631A
R57	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	1	FOR VEP83631A
R58	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	FOR VEP83632A
R58	VRE006610102	M.RESISTOR CH 1/10W 1K	1	D0YD102JA007 FOR VEP83631A
R59	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R59	ERJ3RBD301	M.RESISTOR CH 1/16W 300	1	FOR VEP83631A
R60	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	FOR VEP83631A
R61	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	FOR VEP83632A
R62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R63	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	FOR VEP83632A
R63	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	FOR VEP83631A
R64	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83631A
R64	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	FOR VEP83632A
R65	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002 FOR VEP83631A
R65	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	FOR VEP83632A
R66	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	FOR VEP83631A
R67	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	FOR VEP83632A
R68	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002 FOR VEP83631A
R68	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	FOR VEP83632A
R69	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R69	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	FOR VEP83632A
R70	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R70	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	FOR VEP83632A
R71	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R71	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83632A
R72	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R72	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83632A
R73	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R73	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R74	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R74	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83632A
R75	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R75	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R76	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R76	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R77	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R77	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83632A
R78	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R78	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83632A
R79	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R79	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R80	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R80	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R81	D1H810040003	COMBI.R-R 10	1	FOR VEP83631A
R81	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	FOR VEP83632A
R82	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R82	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R83	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	FOR VEP83632A
R84	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	FOR VEP83632A
R85	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R85	VRE006622152	M.RESISTOR CH 1/10W 1.5K	1	D0YD152JA008 FOR VEP83632A
R86	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83631A
R86	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	FOR VEP83632A
R87	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83631A
R88	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83631A
R88	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83632A
R89,90	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	FOR VEP83632A
R91,92	ERJ3RED180	M.RESISTOR CH 1/16W 18	2	FOR VEP83632A
R93,94	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	FOR VEP83632A
R95	ERJ3RED180	M.RESISTOR CH 1/16W 18	1	FOR VEP83632A
R96-99	ERJ3RED680	M.RESISTOR CH 1/16W 68	4	FOR VEP83632A
R100,01	ERJ3RBD471	M.RESISTOR CH 1/16W 470	2	FOR VEP83632A
R102	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R102	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	FOR VEP83632A
R103	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R103	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	FOR VEP83632A
R104	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R105	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R105	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83632A
R106	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	FOR VEP83632A
R106	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R107	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R108	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R109,10	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R111	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R112	ERJ3RED224	M.RESISTOR CH 1/16W 220K	1	
R113	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R114	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R115	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R116	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R117	ERJ3RED184	M.RESISTOR CH 1/16W 180K	1	
R118	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R119	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R120	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R123	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R125	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R126	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R131	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R132	ERJ3RED394	M.RESISTOR CH 1/16W 390K	1	
R133	ERJ3RED224	M.RESISTOR CH 1/16W 220K	1	
R135	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R138	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R139	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R141	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R143	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R144	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R146,47	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R148	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R200	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R201	EXBV8V102J	COMBI.R-R 1K	1	
R202-05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R206	ERJ3RED154	M.RESISTOR CH 1/16W 150K	1	
R207	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R208,09	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R210	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R211	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R300	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R301	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R302	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R303,04	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	2	
R305,06	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R307,08	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R309	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R310	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R311	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R312,13	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	2	
R314	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R315	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R316,17	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	2	
R318	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R319	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R320	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R321	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R322	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R323,24	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R325	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R326,27	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R328	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R329	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R330	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R331	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R335-37	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R339-41	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R400	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R401	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R402	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R403	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R404	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R405	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R406	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R407	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R408	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R409	ERJ3RED124	M.RESISTOR CH 1/16W 120K	1	
R410	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R412	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R413	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R415	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R416,17	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R420	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R500-02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	D0GB103JA002
R503-05	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R507	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R508	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R509	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R510	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R511	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R512	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R513	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R514	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R515	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R516	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R517	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R518	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R519	ERJ3GEYJ106	M.RESISTOR CH 1/16W 10M	1	
R520	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R521,22	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R523	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R525,26	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R527	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R600,01	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R603,04	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R605	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R606	EXBV8V102J	COMBI.R-R 1K	1	
R608,09	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R610	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R611	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R612	D1H833040002	COMBI.R-R 33	1	
R613,14	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R615	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R616	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R617,18	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R621,22	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R623,24	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R625	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R626-31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R632-35	EXBV8V102J	COMBI.R-R 1K	4	
R636-46	D1H833040002	COMBI.R-R 33	11	
R647,48	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R650	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R651	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R652	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R653-56	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R658,59	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R660,61	EXBV8V101J	COMBI.R-R 100	2	
R662	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R663,64	D1H833040002	COMBI.R-R 33	2	
R665	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R666-69	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R670	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R671	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R672	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R673,74	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R675-79	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	5	
R682	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R684-88	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	5	
R689	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R690-94	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R697	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R698,99	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R700-02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R703	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R704	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R705	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R707	ERJ3RHD3740	M.RESISTOR CH 1/16W 370K	1	
R708	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R709-12	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R713-15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
SW1	VSS0367-02B	SWITCH	1	FOR VEP83631A
TG1	EYF6CU	TEST POINT	1	
TG1	EYF6CU	TEST POINT	1	FOR VEP83631A
TG6	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP2	EYF6CU	TEST POINT	1	
TP3	EYF6CU	TEST POINT	1	FOR VEP83631A
TP100	EYF6CU	TEST POINT	1	
TP113,14	EYF6CU	TEST POINT	2	
TP200	EYF6CU	TEST POINT	1	
TP203	EYF6CU	TEST POINT	1	
TP205	EYF6CU	TEST POINT	1	
TP300,01	EYF6CU	TEST POINT	2	
TP401	EYF6CU	TEST POINT	1	
TP603-07	EYF6CU	TEST POINT	5	
TP609,10	EYF6CU	TEST POINT	2	
TP614	EYF6CU	TEST POINT	1	
VR300,01	VRV0113B103	V.RESISTOR 10K	2	
VR302,03	VRV0113B503	V.RESISTOR 50K	2	D3EC45030002
VR304,05	VRV0113B502	V.RESISTOR 5K	2	D3EC45020002
VR400,01	VRV0113B502	V.RESISTOR 5K	2	D3EC45020002
X1	H4G1487B0002	CRYSTAL OSCILLATOR	1	FOR VEP83631A
X1	H4G1487B0002	CRYSTAL OSCILLATOR	1	FOR VEP83632A
X300	VSX0688	CRYSTAL OSCILLATOR	1	H1C1435B0001
X301	VSX0689	CRYSTAL OSCILLATOR	1	H1C1775B0002
X302	VSX0677	CRYSTAL OSCILLATOR	1	H1C1355B0002
X400	H1C7415B0003	CRYSTAL OSCILLATOR	1	
X401	H1C7425B0003	CRYSTAL OSCILLATOR	1	
X500	VSX0906	CRYSTAL OSCILLATOR	1	H4G2705A0001
X501	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
		MISCELLANEOUS		
	VKC0572	P.C.BOARD CATCHER (L)	1	
	VKC0573	P.C.BOARD CATCHER (R)	1	
	XNG3ES	NUT	2	
	XYN3+J8	SCREW	2	
	XYN2+J6	SCREW	2	
	VMS4950	P.C.B. POST	8	
	XYN26+J6	SCREW	16	
	VMP6727	CONNECTOR MOUNT PLATE A	1	
	VMP7966	CONNECTOR MOUNT PLATE B	1	
	VMX3062	BNC CNCT HOLDER RUBBER	1	
	VMX3064	CONNECTOR HOLDER RUBBER C	1	
	VMX3405	CONNECTOR HOLDER RUBBER E	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

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ELECTRICAL REPLACEMENT PARTS LIST
(AJ-YAD120AG)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83651A	1394 IF P.C.BOARD	1	(RTL)
■ E2	VEP80D12A	CN P.C.BOARD	1	
■ E1	VEP83651A	1394 IF P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3,C4	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C8-11	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C12,13	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C14	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C16,17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C18,19	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	2	
C20,21	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C22	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C23-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C26	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C27	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C50,51	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C52	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C53	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C55	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C56-66	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	11	
C67	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C68,69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C71	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C73	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C76	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C100	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C150	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C151	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C152	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C153	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C154	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C155	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C156	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C157	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C158-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C161	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C162,63	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C164	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C165-71	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	
C172	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
C173-78	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C200,01	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C250,51	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C252	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C253-55	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C256	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C257-59	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C261	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C263,64	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C266	EEFCD0K330R	E.CAPACITOR 8V 33U	1	
C300-03	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C304	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009
C305-10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C311	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C312	ECUX1C224KBN	C.CAPACITOR CH 16V 0.22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C313-15	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
C316	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C317,18	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C319	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C320-25	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C350-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C400-07	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C450-61	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	12	
C500	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C502-09	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	8	
C550,51	ECUX1H090DCV	C.CAPACITOR CH 50V 9P	2	
C552-56	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C561	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C571,72	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C573	ECUX1C106KBP	C.CAPACITOR CH 16V 10U	1	
C574	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C670	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C671,72	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C673	ECUX1C105KBN	C.CAPACITOR CH 10V 1U	1	
C674	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C675	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C676	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C677	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C678	ECJ1VC1H560J	C.CAPACITOR CH 50V 560P	1	
C679	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C680	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C681-83	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
D50-54	LN1271RAL	DIODE	5	
D500	LN1271RAL	DIODE	1	
D670	MA2SV0100L	DIODE	1	
IC1	C0CBAAD00023	IC	1	
IC2	C0EBE0000209	IC	1	
IC3,C4	C0CBAAD00008	IC	2	
IC5	C0CBAAG00019	IC	1	
IC6	C0DBAHC00028	IC	1	
IC50	C2GBC0000084	MICRO CONTROLLER	1	
IC51	C0JBAA000174	IC	1	
IC53	TC7W241FU	IC	1	
IC55	C3EBFG000004	IC	1	
IC56	TC7SH32FU	IC	1	
IC58	C0JBAZ000516	IC	1	
IC60	C1AB00001228	IC	1	
IC100	IDT71V321L5F	IC	1	C3HBCC000023
IC150	C9ZB00000410	IC	1	
IC200	C3ABRG000011	IC	1	
IC250	C1DB00000873	IC	1	
IC300	VSI4128A	IC	1	
IC301	C3ABQG000045	IC	1	
IC350	T160G70-1601	IC	1	
IC400	MN673797A	IC	1	
IC450	C1ZBZ0002432	IC	1	
IC500	TC7W241FU	IC	1	
IC502	C1ZBZ0002224	IC	1	
IC503	C3FBMG000011	IC	1	
IC551,52	C0JBAZ001825	IC	2	
IC556,57	C0JBAZ001907	IC	2	
IC560	C0JBAZ001825	IC	1	
IC561,62	C0JBAB000422	IC	2	
IC600	C0JBAZ000279	IC	1	
IC601	C0JBAZ000529	IC	1	
IC602	C0JBAZ001825	IC	1	
IC604	C0ABHA000020	IC	1	
ID0	VVVSI4282D	SOFTWARE	1	DOWNLOAD ONLY
ID1	VVVSI4288C	SOFTWARE	1	DOWNLOAD ONLY
L1	VLP0183	COIL	1	J0JKC0000007
L3	VLP0183	COIL	1	J0JKC0000007
L50	VLQ0319K470	COIL 47UH	1	G1C470K00013
L250	VLQ0319K470	COIL 47UH	1	G1C470K00013
L251,52	J0LB00000048	FILTER	2	
L550	VLQ0319K470	COIL 47UH	1	G1C470K00013
L670	VLQ0163J470	COIL 47UH	1	

Components identified with the mark ⚠ have special characteristics for safety.
When replacing any of these component, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L671	G3AR56Z00001	COIL 0.56UH	1	
P1	VJS4064K100E	CONNECTOR (FEMALE)	1	K1KAA0A00055
P2	VJS3791B020	CONNECTOR (FEMALE)	1	
P50	K1KA10A00303	CONNECTOR (MALE)	1	
P250	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P500	K1KA08B00147	CONNECTOR (FEMALE)	1	
⚠ Q1	HAT1033T	TRANSISTOR	1	
Q670	2SA153200L	TRANSISTOR	1	
Q671	2SC3930	TRANSISTOR	1	
QR1	UNR521400L	TRANSISTOR-RESISTOR	1	
QR50-54	UNR521400L	TRANSISTOR-RESISTOR	5	
QR500	UNR521400L	TRANSISTOR-RESISTOR	1	
R1	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R2	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4-R6	D1H84704A008	COMBI.R-R 47	3	
R7	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R8	EXBV8V102J	COMBI.R-R 1K	1	
R9,10	D1H847240002	COMBI.R-R 4.7K	2	
R11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R12	EXBV8V102J	COMBI.R-R 1K	1	
R15	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R16	ERJ3RBD751	M.RESISTOR CH 1/16W 750	1	
R50	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R51	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R52	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R53-55	EXBV8V102J	COMBI.R-R 1K	3	
R56-61	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	6	
R62	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R63,64	EXBV8V102J	COMBI.R-R 1K	2	
R65	D1H847240002	COMBI.R-R 4.7K	1	
R74	EXBV8V102J	COMBI.R-R 1K	1	
R75	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R76	EXBV8V102J	COMBI.R-R 1K	1	
R77	D1H833040002	COMBI.R-R 33	1	
R78	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R79	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R80	D1H833040002	COMBI.R-R 33	1	
R81	EXBV8V102J	COMBI.R-R 1K	1	
R82	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R83	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R85	EXBV8V102J	COMBI.R-R 1K	1	
R86	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R87	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R92	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R93	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R95	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R101-04	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	4	
R105,06	D1H833040002	COMBI.R-R 33	2	
R151	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R157	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R159	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R161,62	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R163	D1H847240002	COMBI.R-R 4.7K	1	
R165	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R166	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	D0GB103JA002
R168,69	D1H847240002	COMBI.R-R 4.7K	2	
R172,73	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R200	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R250	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R251	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R252	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R253,54	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R256	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R257	D0GZ103J0001	M.RESISTOR CH 10K	1	
R258	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R259	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R261	ERJ6RBD912	M.RESISTOR CH 1/10W 9.1K	1	
R262-65	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	4	D0GD560JA003
R266	ERJ6GEYJ512V	M.RESISTOR CH 1/10W 5.1K	1	D0GD512JA003
R268	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R270,71	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R300-02	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R306	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R307	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R309	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R310	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R400-05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	6	D0GB103JA002
R406-09	D1H833040002	COMBI.R-R 33	4	
R410,11	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R412-14	D1H833040002	COMBI.R-R 33	3	
R415,16	EXBV8V101J	COMBI.R-R 100	2	
R417,18	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	D0GB103JA002
R450	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R451	D1H833040002	COMBI.R-R 33	1	
R453,54	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R455	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R456	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R457-65	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	9	
R467,68	D1H833040002	COMBI.R-R 33	2	
R469,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R471	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R472	D1H847240002	COMBI.R-R 4.7K	1	
R473	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R474-77	EXBV8V102J	COMBI.R-R 1K	4	
R478,79	D1H833040002	COMBI.R-R 33	2	
R480-82	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	3	
R484,85	EXBV8V102J	COMBI.R-R 1K	2	
R486	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R492	EXBV8V102J	COMBI.R-R 1K	1	
R503	D1H847240002	COMBI.R-R 4.7K	1	
R504-07	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R509	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R514	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R515-17	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	3	
R519-22	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R523-27	D1H847240002	COMBI.R-R 4.7K	5	
R550	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R551	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R552	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R553	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R554	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R556,57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R558	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R559-62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	4	
R563	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R564	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R565,66	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R567,68	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R569,70	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R573-75	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R577	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R578	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R579	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R580,81	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R585,86	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R597	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R598	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R599	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R670	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R671,72	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R673	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R674	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R676	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R677	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R678	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R679	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R680	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R681	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R682	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R683	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R684	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R685,86	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R687	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R688,89	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R690,91	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R692,93	D1H833040002	COMBI.R-R 33	2	
R694	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
SW50,51	K0D141A00002	SWITCH	2	
TG1,G2	EYF6CU	TEST POINT	2	
TP70	EYF6CU	TEST POINT	1	
TP401	EYF6CU	TEST POINT	1	
TP404	EYF6CU	TEST POINT	1	
TP450	EYF6CU	TEST POINT	1	
TP454,55	EYF6CU	TEST POINT	2	
TP461,62	EYF6CU	TEST POINT	2	
TP481-83	EYF6CU	TEST POINT	3	
TP550	EYF6CU	TEST POINT	1	
TP554	EYF6CU	TEST POINT	1	
TP670,71	EYF6CU	TEST POINT	2	
VC670	VCV0050	TRIMMER	1	
X50	H0J921400004	CRYSTAL OSCILLATOR	1	
X250	VSX0974	CRYSTAL OSCILLATOR	1	H0J245500010
X550	H0J180500011	CRYSTAL OSCILLATOR	1	
X551	VSX0983	CRYSTAL OSCILLATOR	1	H1A2705B0007
		MISCELLANEOUS		
	VMS4950	P.C.B. POST	3	
	XYN26+J6	SCREW	6	
	C1ZBZ0002330	IC	1	
■ E2	VEP80D12A	CN P.C.BOARD	1	(RTL)
D1-D4	D4ED12700007	DIODE	4	
D5	B0KB00000041	DIODE	1	
P1	K1FA106E0001	CONNECTOR	1	
P2	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
		MISCELLANEOUS		
	VJF1490	CONNECTOR HOLDER A	1	
	VJF1491	CONNECTOR HOLDER B	1	
	XYN2+J6	SCREW	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks